EGETATION - Use scientific	c names of plants				Sampling Point: SP-7
Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1		%			that are OBL, FACW, or FAC: 1 (A)
2.					Total Number of Dominant
3.					Species Across All Strata: 1 (B)
4.		%			Percent of Dominant Species
5.		%			that are OBL, FACW, or FAC:100%_ (A/B)
6.		%			Description of the description of the
7.		%			Prevalence Index worksheet:
			= Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				OBL species0% x 1 =0 FACW species110% x 2 =220
1		%			
2.		%			FAC species0 % x 3 =0
3.		%			FACU species10 % x 4 =40
4		%			UPL species0 % x 5 =0
5		%			Column Totals: 120 % (A) 260 (B)
6		_ %_			Prevalence Index = B/A = 2.17
7		%	·		Prevalence index = B/A =
		0 %	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
Phalaris arundinacea		95 %	Y	FACW	□ 2 - Dominance Test is >50%
2. Vernonia fasciculata		15 %		FACW	
3. Solidago altissima					
4		%			4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate
5		%			sheet)
6		%_			☐ Problematic Hydrophytic Vegetation¹ (Explain)
7		%	·		¹ Indicators of hydric soil and wetland hydrology must be
8					present, unless disturbed or problematic
9					Definitions of Vegetation Strata:
10					Dominiono di Vogotation Circiai
l1			·		Tree – Woody plants 3 in. (7.6 cm) or more in
		_	= Total Cover		diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants less than 3 in. DBH
Woody Vine Stratum	(Plot size: <u>30'</u>)				and greater than 3.28 ft (1 m) tall.
1		%			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2		%			
3		0.4			Woody vine – All woody vines greater than 3.28 ft in height.
4.					
		0 %	= Total Cover		Hydrophytic Vegetation Present? ⊠ Yes ☐ No
Remarks (include photo numbers	s here or on a separate s		•		7 . 7 . 0

Profile Desc		•		r or confirm t	he absence of indicators.)	
Depth	Matrix		Redox Features		_	
(inches)	Color (moist) %		% Type ¹		Texture	Remarks
.0-24	10YR 3/2 95	10YR 5/6	5C	M	clay loam	
			·		<u>-</u>	-
		<u> </u>				
	· ———				-	
					-, <u> </u>	
					<u> </u>	
					_,	
			·		-	
¹Type: C=Co	oncentration, D=Depletion,	RM=Reduced Matrix, M	1S=Masked Sand G	Grains	² Location: PL=Pore Lining	ng, M=Matrix
Hydric Soil I	ndicators:				Indicators for Problematic Hyd	dric Soils³:
☐ Histosol (A1)	☐ Dark Surface (S	7) (LRR R, MLRA 1	149B)	☐ 2 cm Muck (A10) (LRR K, L ,	MLRA 149B)
☐ Histic Epi	pedon (A2)	☐ Polyvalue Below	Surface (S8) (MLF	RA 147, 148)	☐ Coast Prairie Redox (A16) (L	RR K, L, R)
☐ Black His	tic (A3)	☐ Thin Dark Surfac	ce (S9) (LRR R, MI	RA 149B)	☐ 5 cm Mucky Peat or Peat (S3	B) (LRR K, L, R)
☐ Hydrogen	Sulfide (A4)	☐ Loamy Mucky M	ineral (F1) (LRR K,	L)	☐ Dark Surface (S7) (LRR K, L	.)
☐ Stratified	Layers (A5)	☐ Loamy Gleyed M	/latrix (F2)		☐ Polyvalue Below Surface (S8	B) (LRR, K, L)
☐ Depleted	Below Dark Surface (A11)	□ Depleted Matrix	(F3)		☐ Thin Dark Surface (S9) (LRR	R, K, L)
☐ Thick Dar	k Surface (A12)	□ Redox Dark Surf	face (F6)		☐ Iron-Manganese Masses (F1	2) (LRR , K , L)
☐ Sandy Mu	ucky Mineral (S1)	□ Depleted Dark S	Surface (F7)		☐ Piedmont Floodplain Soils (F	19) (MLRA 149B)
☐ Sandy Gl	eyed Matrix (S4)	☐ Redox Depression	ons (F8)		☐ Mesic Spodic (TA6) (MLRA 1	144A, 145, 149B)
☐ Sandy Re	edox (S5)				☐ Red Parent Material (F21)	
☐ Stripped I	Matrix (S6)				☐ Very Shallow Dark Surface (TF12)
					☐ Other (Explain in Remarks)	
³ Indicators of	hydrophytic vegetation an	d wetland hydrology mu	ıst be present, unle	ss disturbed o	r problematic	
Restrictive L	_ayer (if observed):				Hydric Soil Present?	
Туре:		Depth (inches):			⊠ Yes □ No	
Remarks: H	lydric soil indicator F6 is pr	esent.				

Project/Site: Lemoyne-Midway 138	kV Project	City/County: Wood County	Sampling Date: <u>8/5/2014</u>
Applicant/Owner: ATSI		Stat	e: Ohio Sampling Point: SP-8
Investigator(s): RIchards, Gutman	1	Section, Township, R	ange: T6N, R12E, S18
	terrace	Local relief (concave, convex, n	
Subregion (LRR or MLRA): L	Lat: 41.4758		6325 Datum: NAD83
Soil Map Unit Name: Hoytville cla	ay loam, 0 to 1 percent slop	pes	NWI Classification: N/A
Are climate/hydrologic conditions on	the site typical for this time	e of year? 🛛 Yes 🔲 No	(If no, explain in Remarks)
Vegetati	• •		
Significantly Disturbed?		Are "Normal Circumstar	nces" present? 🛛 Yes 🗌 No
Naturally Problematic?		(If needed, explain a	any answers in Remarks)
SUMMARY OF FINDINGS – Atta	ch site man showing	sampling point locations, tran	sects, important features, etc.
7	Yes No		djcent to W-4 and is partially located in an
Hydrophytic Vogotation Propont?		agricultural field.	dicent to W-4 and is partially located in an
Hydrophytic Vegetation Present? Hydric Soil Present?			
Wetland Hydrology Present?			
Is the Sampled Area within a Wetla			
is the Sampled Area within a wette	and? □ ⊠		
HYDROLOGY			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one	required; check all that app	<u>oly)</u>	☐ Surface Soil Cracks (B6)
☐ Surface Water (A1)	☐ Water-Stai	ned Leaves (B9)	☐ Drainage Patterns (B10)
☐ High Water Table (A2)	☐ Aquatic Fa	una (B13)	☐ Moss Trim Lines (B16)
☐ Saturation (A3)	☐ Marl Depos	sits (B15)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydrogen :	Sulfide Odor (C1)	☐ Crayfish Burrows (C8)
☐ Sediment Deposits (B2)	☐ Oxidized R	hizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3)	☐ Presence of	of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)
☐ Algal Mat or Crust (B4)	☐ Recent Iron	n Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)
☐ Iron Deposits (B5)	☐ Thin Muck	Surface (C7)	☐ Shallow Aquitard (D3)
☐ Inundation Visible on Aerial Image	ery (B7)	lain in Remarks)	☐ Microtopographic Relief (D4)
☐ Sparsely Vegetated Concave Sur	face (B8)		☐ FAC-Neutral Test (D5)
	Depth	Describe Recorded Data (strea	m gauge, monitoring well, aerial photos, previous
	es No <u>(inches):</u>	inspections, etc.), if available:	
Surface Water Present?			
Water Table Present?			
Saturation Present? [(includes capillary fringe)			
Remarks: Hydrology indicators are r	not present.	I	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,		

/EGETATION – Use scientific names	of plants				Sampling Point: SP-8
Tree Stratum (Pl	ot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
<u> </u>					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
1		- 70 %			Total Number of Dominant
2. 3.		·			Species Across All Strata: 1 (B)
4		·			Percent of Dominant Species
5.		%			that are OBL, FACW, or FAC:0%_(A/B)
6.		%			Barratan a la la constala la cons
7.		%			Prevalence Index worksheet:
		0 % =	= Total Cover		Total % Cover of:Multiply by:
					OBL species0 % x 1 =0
Sapling/Shrub Stratum (Plo	ot size: <u>15'</u>)				FACW species $0\% \times 2 = 0$
1		%			FAC species 5 % x 3 = 15
2		<u>%</u>			
3		%_			FACU species50 % x 4 =200
4					UPL species0% x 5 =0
5					Column Totals:55 % (A)215(B)
6					Prevalence Index = B/A = 3.91
7					
		=	= Total Cover		Hydrophytic Vegetation Indicators:
<u>Herb Stratum</u> (P	Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
1. Dipsacus laciniatus		40 %	Y	FACU	☐ 2 - Dominance Test is >50%
2. Toxicodendron radicans		5 %	N	FAC	☐ 3 - Prevalence Index is ≤3.01
3. Cirsium arvense		5 %		FACU	
4. Amrbosia artemisiifolia		5 %			4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate
5		%			sheet)
6		%			☐ Problematic Hydrophytic Vegetation¹ (Explain)
7		%			¹ Indicators of hydric soil and wetland hydrology must be
8					present, unless disturbed or problematic
9					Definitions of Vegetation Strata:
10 11		- 70 %			
11 12.		· <u>//</u> %			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
			Total Cover		
Woody Vine Stratum (Ple	ot size: <u>30'</u>)		- Total Gove		Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
1		%			Herb – All herbaceous (non-woody) plants, regardless
2		%			of size, and woody plants less than 3.28 ft tall.
3		%			Woody vine – All woody vines greater than 3.28 ft in
4		%			height.
		0 % =	= Total Cover	•	Hydrophytic Vegetation Present? ☐ Yes ☒ No
Remarks (include photo numbers here or o	on a separate si				

Profile Desc	ription: (Describe to the	depth needed to docu	ıment the indicator or	r confirm t	he absence of indicators.)	
Depth	Matrix		Redox Features		-	
(inches)	Color (moist) %		%Type ¹	Loc ²	Texture	Remarks
0-12	10YR 5/1100	<u> </u>			clay loam	
-	· ———			-		
	· ——— ——					
	·					
					<u> </u>	
	·					
	· ———				<u> </u>	
1Tymps, C. Co	nacetration D Depletion	DM Doduced Metrix N	AC Masked Cond Crain		21 agotions DI Doro Linin	a M Matrix
	oncentration, D=Depletion,	RIVI=Reduced Mairix, IV	15=Iviasked Sand Grain	IS .	² Location: PL=Pore Linin	
Hydric Soil I	ndicators:				Indicators for Problematic Hyd	ric Soils ³ :
☐ Histosol (/			7) (LRR R, MLRA 1491		☐ 2 cm Muck (A10) (LRR K, L, I	
☐ Histic Epip	, ,		Surface (S8) (MLRA 1		☐ Coast Prairie Redox (A16) (LI	
☐ Black Hist			ce (S9) (LRR R, MLRA	149B)	5 cm Mucky Peat or Peat (S3)	
☐ Hydrogen		_	ineral (F1) (LRR K, L)		☐ Dark Surface (S7) (LRR K, L)	
☐ Stratified		☐ Loamy Gleyed N			☐ Polyvalue Below Surface (S8)	
-	Below Dark Surface (A11)	□ Depleted Matrix □			☐ Thin Dark Surface (S9) (LRR,	
	k Surface (A12)	☐ Redox Dark Surf			☐ Iron-Manganese Masses (F12	
	ucky Mineral (S1)	☐ Depleted Dark S			☐ Piedmont Floodplain Soils (F1	
-	eyed Matrix (S4)	☐ Redox Depressi	ons (F8)		☐ Mesic Spodic (TA6) (MLRA 1	44A, 145, 149B)
☐ Sandy Re					Red Parent Material (F21)	
☐ Stripped N	Matrix (S6)				☐ Very Shallow Dark Surface (T	F12)
					☐ Other (Explain in Remarks)	
³ Indicators of	hydrophytic vegetation and	d wetland hydrology mu	ist be present, unless of	disturbed o	·	
	ayer (if observed):				Hydric Soil Present?	
Type: c	ompacted soil	Depth (inches):	12		⊠ Yes □ No	
Remarks: H	ydric soil indicator F3 is pre	esent.				

Project/Site: Lemoyne-Midway 138 kV P	roject ·	City/County: Wood County	Sampling Date: <u>8/5/2014</u>
Applicant/Owner: ATSI		Stat	te: Ohio Sampling Point: SP-9
Investigator(s): Richards, Gutman		Section, Township, R	ange: T6N, R12E, S18
Landform (hillslope, terrace, etc.) <u>ditch</u>	1	Local relief (concave, convex, n	one): <u>concave</u> Slope (%): <u>2</u>
Subregion (LRR or MLRA): L	Lat: 41.4757	78 Long: <u>-83.53</u>	1877 Datum: <u>NAD83</u>
Soil Map Unit Name: Hoytville clay loa	am, 0 to 1 percent slop	pes	NWI Classification: N/A
Are climate/hydrologic conditions on the s	site typical for this time	e of year? ☐ Yes ☐ No	(If no, explain in Remarks)
Vegetation	Soil Hydrology	A "AI 10:	, , , , , , , , , , , , , , , , , , ,
Significantly Disturbed?		Are "Normal Circumstar	nces" present? 🔲 Yes 🔲 No any answers in Remarks)
Naturally Problematic?			
SUMMARY OF FINDINGS – Attach s	ite map showing s	sampling point locations, tran	sects, important features, etc.
	Yes No	Remarks: Sample plot located in I	PEM W-5.
Hydrophytic Vegetation Present?			
Hydric Soil Present?			
Wetland Hydrology Present?			
Is the Sampled Area within a Wetland?			
HYDROLOGY			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one requi	<u>ired; check all that app</u>	<u>oly)</u>	☐ Surface Soil Cracks (B6)
☐ Surface Water (A1)	☐ Water-Stai	ned Leaves (B9)	☐ Drainage Patterns (B10)
☐ High Water Table (A2)	☐ Aquatic Fa	una (B13)	☐ Moss Trim Lines (B16)
☐ Saturation (A3)	☐ Marl Depos	sits (B15)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)		Sulfide Odor (C1)	☐ Crayfish Burrows (C8)
☐ Sediment Deposits (B2)		hizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3)	☐ Presence of	of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)
☐ Algal Mat or Crust (B4)	☐ Recent Iron	n Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)
☐ Iron Deposits (B5)	☐ Thin Muck	Surface (C7)	☐ Shallow Aquitard (D3)
☐ Inundation Visible on Aerial Imagery (I	37)	lain in Remarks)	☐ Microtopographic Relief (D4)
☐ Sparsely Vegetated Concave Surface	(B8)		□ FAC-Neutral Test (D5)
Field Observations: Yes	Depth No (inches):		am gauge, monitoring well, aerial photos, previous
Surface Water Present?	(inches).	inspections, etc.), if available:	
Water Table Present?	<u> </u>		
Saturation Present?			
(includes capillary fringe)			
Wetland Hydrology Present?			
Remarks: Hydrology indicators C1, D2, a	and D5 are present.		

Tree Stratum 1.					Sampling Point: SP-9
1.	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
		%			that are OBL, FACW, or FAC: 2 (A)
2.					Total Number of Dominant
3.		%			Species Across All Strata: 2 (B)
4.		%			Percent of Dominant Species
5		%			that are OBL, FACW, or FAC: 100% (A/B)
6		%			Prevalence Index worksheet:
7		%			
			= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				OBL species 20 % x 1 = 20
1		%			FACW species80 % x 2 =160
2.		%			FAC species0 % x 3 =0
3.		%			FACU species0% x 4 =0
4.		%			UPL species0 % x 5 =0
5.		%			Column Totals:100_% (A)180(B)
6		%			
7		%			Prevalence Index = B/A =1.8
			= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum	(Plot size: <u>5'</u>)				☑ 1 - Rapid Test for Hydrophytic Vegetation
1. Phalaris arundinacea		80 %	Y	FACW	□ 2 - Dominance Test is >50%
2. Typha latifolia		20 %	Y	OBL	
3		%			
4		%			4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate
5		%			sheet)
6		<u></u> %			☐ Problematic Hydrophytic Vegetation¹ (Explain)
7		%_			¹ Indicators of hydric soil and wetland hydrology must be
8		%_			present, unless disturbed or problematic
9		%			Definitions of Variation Charter
10		%_			Definitions of Vegetation Strata:
					Tree – Woody plants 3 in. (7.6 cm) or more in
11.		%			
11.					diameter at breast height (DBH), regardless of height.
11	(Plot size: <u>30'</u>)		= Total Cover		diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
11	,	100 % =			Sapling/Shrub – Woody plants less than 3 in. DBH
11		100 % =			Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
11	,,	100 % = % %			Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11	,,	100 % = % %			Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless

Profile Desc	ription: (Describe to th	e depth needed t	o document the	e indicator or	confirm t	the absence of indicators.)		
Depth	Matrix		Redox Fe			=		
(inches)		% Color (mo		Type ¹	Loc ²	Texture	Remarks	
0-24	10YR 4/29	10YR 2		_ <u>C</u>	M	clay loam		
	· <u></u>	10YR 5	/6 5	C	M			
-								
	·							
	· ———————							
	· ———							
1Tymps, C. Co	nacontration D Depletion	DM Doduced M	otriv MC Mook			21 continue DI Doro Liniu	a M Motrix	
	oncentration, D=Depletion	i, RIVI=Reduced IVI	atrix, IVIS=IVIASK	ed Sand Grain	18	² Location: PL=Pore Linir	•	
Hydric Soil I	ndicators:					Indicators for Problematic Hyd	iric Soils³:	
☐ Histosol (ace (S7) (LRR F			☐ 2 cm Muck (A10) (LRR K, L ,		
☐ Histic Epi	, ,	_	Below Surface			Coast Prairie Redox (A16) (L	,	
☐ Black Hist	• •		Surface (S9) (L		149B)	5 cm Mucky Peat or Peat (S3		
☐ Hydrogen		_	ucky Mineral (F1	, ,		☐ Dark Surface (S7) (LRR K, L	•	
☐ Stratified			eyed Matrix (F2)		☐ Polyvalue Below Surface (S8		
-	Below Dark Surface (A11					☐ Thin Dark Surface (S9) (LRR, K, L)		
	k Surface (A12)		ark Surface (F6)			☐ Iron-Manganese Masses (F1		
	ucky Mineral (S1)		Dark Surface (F	7)		☐ Piedmont Floodplain Soils (F		
-	eyed Matrix (S4)	☐ Redox De	epressions (F8)			☐ Mesic Spodic (TA6) (MLRA 1	44A, 145, 149B)	
☐ Sandy Re						Red Parent Material (F21)	>	
☐ Stripped N	Matrix (S6)					☐ Very Shallow Dark Surface (l F12)	
31 11 6						Other (Explain in Remarks)		
	hydrophytic vegetation a	nd wetland hydrol	ogy must be pre	sent, unless o	disturbed o	I		
	ayer (if observed):	5 (1				Hydric Soil Present?		
Туре:		Depth (ir	nches):			⊠ Yes □ No		
Remarks: H	ydric soil indicator F3 is p	present.						

Project/Site: Lemoyne-Midway 1	38 kV Project		City/County: Wood Co	ounty	Sampling Date: 8/5/2014
Applicant/Owner: ATSI				State: Ohio	Sampling Point: SP-10
Investigator(s): RIchards, Gutn	nan		Section, Townsh	ip, Range: T6N,	R11E, S13
Landform (hillslope, terrace, etc.)			Local relief (concave, conv		
Subregion (LRR or MLRA): L		Lat: 41.4758	_		Datum: NAD83
,	e clay loam, 0 to				sification: N/A
Are climate/hydrologic conditions					
			oryear: Miles Mil	o (II IIO, explain	III Nelliaiks)
~_	etation Soil	Hydrology	Are "Normal Circur	nstances" present	? ⊠ Yes □ No
			(If needed, ex	plain any answers in	Remarks)
SUMMARY OF FINDINGS – A	ttach site m:	en showing s	eampling point locations	transacts impo	ortant features, etc.
SOMMANT OF FINDINGS - A					
	Ye		Remarks: This is an upland p	olot adjacent to W-	5.
Hydrophytic Vegetation Present?					
Hydric Soil Present?					
Wetland Hydrology Present?	[[[[]]				
Is the Sampled Area within a W	etland?				
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary	Indicators (minimum of two required)
Primary Indicators (minimum of o	ne required; ch	eck all that app	oly)	☐ Surface	Soil Cracks (B6)
☐ Surface Water (A1)		☐ Water-Stai	ned Leaves (B9)	☐ Drainag	e Patterns (B10)
☐ High Water Table (A2)		☐ Aquatic Fa	una (B13)		im Lines (B16)
☐ Saturation (A3)		☐ Marl Depos	sits (B15)	☐ Dry-Sea	son Water Table (C2)
☐ Water Marks (B1)		☐ Hydrogen \$	Sulfide Odor (C1)	☐ Crayfish	Burrows (C8)
☐ Sediment Deposits (B2)		☐ Oxidized R	hizospheres on Living Roots (on Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3)		☐ Presence o	of Reduced Iron (C4)	☐ Stunted	or Stressed Plants (D1)
☐ Algal Mat or Crust (B4)		☐ Recent Iron	n Reduction in Tilled Soils (C6)	☐ Geomor	phic Position (D2)
☐ Iron Deposits (B5)		☐ Thin Muck	Surface (C7)	☐ Shallow	Aquitard (D3)
☐ Inundation Visible on Aerial Im	nagery (B7)	☐ Other (Exp	lain in Remarks)		pographic Relief (D4)
☐ Sparsely Vegetated Concave	Surface (B8)			☐ FAC-Ne	utral Test (D5)
		Depth	Describe Recorded Data	(stream gauge, mo	onitoring well, aerial photos, previous
Field Observations:	Yes No	(inches):	inspections, etc.), if availa		
Surface Water Present?					
Water Table Present?					
Saturation Present? (includes capillary fringe)					
Wetland Hydrology Present?					
Remarks: Hydrology indicators a	re not present.		I .		

EGETATION – Use scienti	ific names of plants		Sampling Point: SP-10
		Absolute Dominant Indicate	Dominance Test worksheet:
Tree Stratum	(Plot size: <u>30'</u>)	% Cover Species? Status	Number of Dominant Species
1			
2.			Total Number of Dominant Species Across All Strata: 1 (B)
3.			<u> </u>
4			that are OBL, FACW, or FAC: 0% (A/B)
5		<u>%</u>	-
6			Prevalence Index worksheet:
		0 % = Total Cover	Total % Cover of: Multiply by:
		= Total Gover	OBL species0% x1 =0
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)		
1			FACW species0 % x 2 =0
2.		%	FAC species0% x 3 =0
3.		%	FACU species 0 % x 4 = 0
4		<u></u> %	UPL species90 % x 5 =450
5		%	Column Totals:90 % (A)450 (B)
6			- Dravalance Index D/A F
7		%	— Frevalence index = B/A =5
		0 % = Total Cover	Hydrophytic Vegetation Indicators:
Herb Stratum	(Plot size: <u>5'</u>)		☐ 1 - Rapid Test for Hydrophytic Vegetation
1. Bromus inermis		90 % Y UPL	2 - Dominance Test is >50%
2		%	— ☐ 3 - Prevalence Index is ≤3.01
3			
4			 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate
5		%	sheet)
6			☐ Problematic Hydrophytic Vegetation¹ (Explain)
7			Indicators of hydric soil and wetland hydrology must be
8			present, unless disturbed or problematic
9			Definitions of Vegetation Strata:
10. 11		<u></u> <u> </u>	_
11 12.		<u>%</u>	 Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
		90 % = Total Cover	_
Woody Vine Stratum	(Plot size: <u>30'</u>)	= 1 Oldi Covei	Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
1		%	Herb – All herbaceous (non-woody) plants, regardless
2.			of size, and woody plants less than 3.28 ft tall.
3.			Woody vine – All woody vines greater than 3.28 ft in
4		<u></u> %	height.
		0 % = Total Cover	Hydrophytic Vegetation Present? ☐ Yes ☒ No
Remarks (include photo numb	ers here or on a separate s	heet): Photo C-10. Hydrophytic v	egetation is not present.

Profile Descr	ription: (Describe to the	e depth needed to docur	ment the indicator or	confirm t	the absence of indicators.)	
Depth	Matrix	R	edox Features		_	
(inches)	Color (moist) %	Color (moist)	% Type ¹	Loc ²	Texture	Remarks
0-12	10YR 4/2 8	5 10 YR 3/2	15C	M	clay loam	
				_		
¹ Type: C=Co	ncentration, D=Depletion	, RM=Reduced Matrix, MS	S=Masked Sand Grair	ns	² Location: PL=Pore Lining	ng, M=Matrix
Hydric Soil I	ndicators:				Indicators for Problematic Hyd	łric Soils³:
☐ Histosol (A	\1)	☐ Dark Surface (S7) (LRR R, MLRA 149I	3)	☐ 2 cm Muck (A10) (LRR K, L,	MLRA 149B)
☐ Histic Epip	pedon (A2)	☐ Polyvalue Below	Surface (S8) (MLRA 1	47, 148)	☐ Coast Prairie Redox (A16) (L	.RR K, L, R)
☐ Black Hist	ic (A3)	☐ Thin Dark Surface	e (S9) (LRR R, MLRA	149B)	☐ 5 cm Mucky Peat or Peat (S3	3) (LRR K, L, R)
☐ Hydrogen	Sulfide (A4)	☐ Loamy Mucky Mir	neral (F1) (LRR K, L)		☐ Dark Surface (S7) (LRR K, L	.)
☐ Stratified L	ayers (A5)	☐ Loamy Gleyed Ma	atrix (F2)		☐ Polyvalue Below Surface (S8	() (LRR, K, L)
☐ Depleted I	Below Dark Surface (A11)	☐ Depleted Matrix (F3)		☐ Thin Dark Surface (S9) (LRR	, K, L)
☐ Thick Dark	c Surface (A12)	☐ Redox Dark Surfa	ace (F6)		☐ Iron-Manganese Masses (F1	2) (LRR, K, L)
☐ Sandy Mu	cky Mineral (S1)	☐ Depleted Dark Su	ırface (F7)		☐ Piedmont Floodplain Soils (F	19) (MLRA 149B)
☐ Sandy Gle	eyed Matrix (S4)	☐ Redox Depressio	ns (F8)		☐ Mesic Spodic (TA6) (MLRA 1	144A, 145, 149B)
☐ Sandy Re	dox (S5)				☐ Red Parent Material (F21)	
☐ Stripped N	Matrix (S6)				☐ Very Shallow Dark Surface (ΓF12)
					☐ Other (Explain in Remarks)	
³ Indicators of	hydrophytic vegetation ar	nd wetland hydrology mus	st be present, unless o	listurbed o	r problematic	
Restrictive L	ayer (if observed):				Hydric Soil Present?	
Type: co	ompact soil	Depth (inches):	12		☐ Yes ☒ No	
Remarks: N	o hydric soil indicators are			ct (delta ch	nroma >1) concentrations.	
	,	,		() ()	,	

Project/Site: Lemoyne-Midway 138 k\	√ Project	City/County: Wood County	Sampling Date: _8/5/2014
Applicant/Owner: ATSI		Sta	te: Ohio Sampling Point: SP-11
Investigator(s): Richards, Gutman		Section, Township, R	ange: T6N, R11E, S13
Landform (hillslope, terrace, etc.)di	itch	Local relief (concave, convex, n	one): concave Slope (%): 1
Subregion (LRR or MLRA): L	Lat: 41.475		9477 Datum: NAD83
Soil Map Unit Name: Hoytville clay	loam, 0 to 1 percent slo	pes	NWI Classification: N/A
Are climate/hydrologic conditions on th	ne site typical for this time	e of year? X Yes No	(If no, explain in Remarks)
Vegetation	• •	•	
Significantly Disturbed?		Are "Normal Circumstar	nces" present? 🛛 Yes 🗌 No
Naturally Problematic?		(If needed, explain	any answers in Remarks)
SUMMARY OF FINDINGS – Attacl	h site map showing	sampling point locations, tran	sects, important features, etc.
	Yes No	Remarks: Sample plot located in	<u>-</u>
Hydrophytic Vegetation Present?		Remarks. Campic plot located in	LIVI VV -O.
Hydric Soil Present?			
Wetland Hydrology Present?			
Is the Sampled Area within a Wetlan			
is the Sampled Area within a Wetlan			
HYDROLOGY			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one re	quired; check all that ap	<u>oly)</u>	☐ Surface Soil Cracks (B6)
☐ Surface Water (A1)	☐ Water-Sta	ned Leaves (B9)	☐ Drainage Patterns (B10)
☐ High Water Table (A2)	☐ Aquatic Fa	una (B13)	☐ Moss Trim Lines (B16)
Saturation (A3)	☐ Marl Depo	sits (B15)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)		Sulfide Odor (C1)	☐ Crayfish Burrows (C8)
☐ Sediment Deposits (B2)	☐ Oxidized F	thizospheres on 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 Iro	n Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)
☐ Iron Deposits (B5)	☐ Thin Muck	Surface (C7)	☐ Shallow Aquitard (D3)
☐ Inundation Visible on Aerial Imager	y (B7)	olain in Remarks)	☐ Microtopographic Relief (D4)
☐ Sparsely Vegetated Concave Surfa	ice (B8)		
	Depth	Describe Recorded Data (strea	am gauge, monitoring well, aerial photos, previous
Field Observations: Yes	(IIIOIICO).	inspections, etc.), if available:	
Surface Water Present?			
Water Table Present?			
Saturation Present? (includes capillary fringe)	1		
Wetland Hydrology Present?			
Remarks: Hydrology indicators A2, A3	3, C1, D2, and D5 are pro	esent.	
, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,		

Sapling/Shrub Stratum	nt Species W, or FAC: 1 (A) priminant Strata: 1 (B) nt Species W, or FAC: 100% (A/B)
1.	W, or FAC:
Total Number of Especies Across A Percent of Dominitation of Especies College	minant Strata: 1 (B) nt Species N, or FAC: 100% (A/B) worksheet: n of: Multiply by: 0 % x 1 = 0 100 % x 2 = 200 0 % x 3 = 0 0 % x 4 = 0 0 % x 5 = 0
3.	Strata:
Percent of Domin: that are OBL, FAC	W, or FAC:100%(A/B) worksheet: r of:Multiply by: 0%
5. % that are OBL, FAC 6. % Prevalence Index 7. % Total % Cover OBL species FACW species FACW species FACU species FACU species FACU species UPL species Column Totals: 6. % Column Totals: 7. % Prevalence Index 4. % Prevalence Index 7. % Total Cover Herb Stratum (Plot size: 5') Hydrophytic Veg Machine Index Machine Index Machine Index 1. Phalaris arundinacea 100 % Y FACW 2 - Dominance 2. % Machine Index Machine Index </td <td>W, or FAC:(A/B) worksheet: r of:Multiply by:</td>	W, or FAC:(A/B) worksheet: r of:Multiply by:
6. 7.	r of: Multiply by: $ \begin{array}{cccccccccccccccccccccccccccccccccc$
Sapling/Shrub Stratum (Plot size: 15') Total % Cover 1. % FACW species 2. % FACU species 3. % UPL species 4. % UPL species 5. % Column Totals: 6. % Prevalence Index 7. % Y 9. 1 - Rapid Test 2 - Dominance 1. Phalaris arundinacea 100 % Y FACW 2 - Dominance 2. % 3 - Prevalence 3 - Prevalence 3. % 4 - Morphologi supporting disheet) 4 - Morphologi supporting disheet) 5. % Problematic Hydric present, unless distute the present.	r of: Multiply by: $0\% \times 1 = 0$ $100\% \times 2 = 200$ $0\% \times 3 = 0$ $0\% \times 4 = 0$ $0\% \times 5 = 0$
Sapling/Shrub Stratum (Plot size: 15') Total Cover 1. % FACW species 2. % FACU species 3. % UPL species 5. % Column Totals: 6. % Prevalence Index 7. % Y FACW Herb Stratum (Plot size: 5') X 1 - Rapid Test X 2 - Dominance 2. % X 2 - Dominance X 3 - Prevalence X 3 - Prevalence X 4 - Morphologic supporting disperting	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Sapling/Shrub Stratum	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$
1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
1.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
2.	0 % x 4 = 0 0 % x 5 = 0
3. % UPL species 5. % Column Totals: 6. % Prevalence Index 7. % Hydrophytic Veg West of the stratum (Plot size: 5') ✓ 1 - Rapid Test 1. Phalaris arundinacea 100 % Y FACW ✓ 2 - Dominance 2. % ✓ ✓ 3 - Prevalence 3. % ✓ ✓ 4 - Morphologi supporting distance) 5. % ✓ ✓ Problematic Hydrophytic Veg 6. % ✓ Indicators of hydric present, unless disturently present.	<u>0</u> % x 5 = <u>0</u>
4.	
6.	100 % (A) <u>200</u> (B)
7. % Hydrophytic Veg Herb Stratum (Plot size: 5') ✓ ✓ 1 - Rapid Test ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	
Herb Stratum	= B/A = 2
Herb Stratum (Plot size: 5') 1. Phalaris arundinacea 100 % Y FACW ☑ 2 - Dominance 2. % ☑ 3 - Prevalence 3. % ☐ 4 - Morphologis supporting displayering display	
1. Phalaris arundinacea 100 % Y FACW ☐ 2 - Dominance ☐ 3 - Prevalence ☐ 3 - Prevalence ☐ 4 - Morphologia supporting da sheet) ☐ 5 .	tation Indicators:
1. Phalaris arundinacea 100 % Y FACW	or Hydrophytic Vegetation
2. % 3. % 4. % 5. % 6. % 7. % 8. % 9. % 3 - Prevalence	
3.	
4.	
5.	al Adaptations ¹ (Provide a in Remarks or on a separate
6	a in resinance of on a coparate
7. % 8. % 9. %	drophytic Vegetation ¹ (Explain)
8	oil and wetland hydrology must be
9	
	otation Strata:
70	etation on ata.
* * *	3 in. (7.6 cm) or more in
	eight (DBH), regardless of height.
<u>Moody Vine Stratum</u> (Plot size: <u>30'</u>) Sapling/Shrub – Wand greater than 3.	pody plants less than 3 in. DBH 8 ft (1 m) tall.
1.	us (non-woody) plants, regardless
2. % of size, and woody	lants less than 3.28 ft tall.
3	
4height.	oody vines greater than 3.28 ft in
= Total Cover Hydrophytic Veget	oody vines greater than 3.28 ft in

Profile Descri	ption: (Describe to	the de				confirm t	the absence of indicators.)		
Depth .	Matrix		F	Redox Fea			_		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-24	10YR 3/1	80	10YR 4/2	15	<u>D</u>	M	clay loam		
			10YR 5/6	5	C	M			
				-					
							_, =		
					·		-		
¹ Type: C=Con	centration, D=Depleti	ion, RN	=Reduced Matrix, M	IS=Maske	ed Sand Grain	S	² Location: PL=Pore Linin	g, M=Matrix	
Hydric Soil In	dicators:						Indicators for Problematic Hyd	ric Soils³:	
☐ Histosol (A	1)		☐ Dark Surface (S7	7) (LRR R	, MLRA 149F	3)	☐ 2 cm Muck (A10) (LRR K, L,	MLRA 149B)	
☐ Histic Epipe	edon (A2)		☐ Polyvalue Below	Surface ((S8) (MLRA 1	47, 148)	☐ Coast Prairie Redox (A16) (L	RR K, L, R)	
☐ Black Histic	c (A3)		☐ Thin Dark Surfac	e (S9) (L	RR R, MLRA	149B)	☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
☐ Hydrogen S	Sulfide (A4)		☐ Loamy Mucky Mi	ineral (F1) (LRR K, L)		☐ Dark Surface (S7) (LRR K, L)	
☐ Stratified La	ayers (A5)		☐ Loamy Gleyed M	latrix (F2)	ı		☐ Polyvalue Below Surface (S8) (LRR, K, L)		
☐ Depleted B	elow Dark Surface (A	(11)	☐ Depleted Matrix	(F3)			☐ Thin Dark Surface (S9) (LRR, K, L)		
☐ Thick Dark	Surface (A12)		Redox Dark Surf	ace (F6)			☐ Iron-Manganese Masses (F12) (LRR, K, L)		
☐ Sandy Muc	ky Mineral (S1)		☐ Depleted Dark S	urface (F7	7)		☐ Piedmont Floodplain Soils (F19) (MLRA 149B)		
☐ Sandy Gley	ved Matrix (S4)		☐ Redox Depression	ons (F8)			☐ Mesic Spodic (TA6) (MLRA 1	44A, 145, 149B)	
☐ Sandy Red	ox (S5)						☐ Red Parent Material (F21)		
☐ Stripped Ma	atrix (S6)						☐ Very Shallow Dark Surface (1	Γ F 12)	
							☐ Other (Explain in Remarks)		
³ Indicators of h	nydrophytic vegetation	n and w	etland hydrology mu	st be pres	sent, unless d	isturbed o	r problematic		
Restrictive La	yer (if observed):						Hydric Soil Present?		
Туре:			Depth (inches):				⊠ Yes □ No		
Remarks: Hyd	dric soil indicator F6 i	is prese	nt.						

Project/Site: Lemoyne-Midway 138 k\	√ Project	City/County: Wood County	Sampling Date: _8/5/2014				
Applicant/Owner: ATSI		Sta	te: Ohio Sampling Point: SP-12				
Investigator(s): Richards, Gutman		Section, Township, R	ange: T6N, R11E, S13				
Landform (hillslope, terrace, etc.) te	errace	Local relief (concave, convex, r	·				
· · · · · · · · ·	Lat: 41.4758						
	loam, 0 to 1 percent slo		NWI Classification: N/A				
Are climate/hydrologic conditions on th	•		<u> </u>				
			(If no, explain in Remarks)				
Vegetation Significantly Disturbed? □	n Soil Hydrology □ □	Are "Normal Circumsta	nces" present? 🛛 Yes 🔲 No				
Naturally Problematic?			any answers in Remarks)				
		line naint leastione trop					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Living A strange Barrers	Yes No	Remarks: This is an upland plot a	adjacent to W-6.				
Hydrophytic Vegetation Present?							
Hydric Soil Present?							
Wetland Hydrology Present?							
Is the Sampled Area within a Wetlan	nd? 🗌 🛛						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one re-	quired; check all that app	<u>oly)</u>	☐ Surface Soil Cracks (B6)				
☐ Surface Water (A1)	☐ Water-Stai	ned Leaves (B9)	☐ Drainage Patterns (B10)				
☐ High Water Table (A2)	☐ Aquatic Fa	una (B13)	☐ Moss Trim Lines (B16)				
☐ Saturation (A3)	☐ Marl Depos	sits (B15)	☐ Dry-Season Water Table (C2)				
☐ Water Marks (B1)	☐ Hydrogen	Sulfide Odor (C1)	☐ Crayfish Burrows (C8)				
☐ Sediment Deposits (B2)	☐ Oxidized R	chizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)				
☐ Drift Deposits (B3)	☐ Presence of	of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)				
☐ Algal Mat or Crust (B4)	☐ Recent Iron	n Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)				
☐ Iron Deposits (B5)	☐ Thin Muck	Surface (C7)	☐ Shallow Aquitard (D3)				
☐ Inundation Visible on Aerial Imagery	y (B7)	lain in Remarks)	☐ Microtopographic Relief (D4)				
☐ Sparsely Vegetated Concave Surfa	ice (B8)		☐ FAC-Neutral Test (D5)				
Field Observed Company	Depth		am gauge, monitoring well, aerial photos, previous				
Field Observations: Yes	(inches).	inspections, etc.), if available:					
Surface Water Present?	⊠						
Water Table Present?	<u> </u>						
Saturation Present? (includes capillary fringe)							
Wetland Hydrology Present? □							
Remarks: Hydrology indicators are no	Remarks: Hydrology indicators are not present.						

EGETATION - Use scientif	fic names of plants				Sampling Point: SP-12
Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1	,				Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
1.					Total Number of Dominant
2.					Species Across All Strata: 2 (B)
3					Percent of Dominant Species
4 5		- / %			that are OBL, FACW, or FAC: 50% (A/B)
6.		%			
7.		%			Prevalence Index worksheet:
			= Total Cover		Total % Cover of:Multiply by:
					OBL species0 % x 1 =0
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				FACW species 0 % x 2 = 0
1		%			
2		%			FAC species22 % x 3 =66
3		%			FACU species 0 % x 4 = 0
4		%			UPL species <u>62</u> % x 5 = <u>310</u>
5		%			Column Totals: <u>84</u> % (A) <u>376</u> (B)
6		%_			Prevalence Index = B/A = 4.48
7		%			1 revalence muex = B/A = 4.40
			= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
1. Bromus inermis		60 %	Υ	UPL	2 - Dominance Test is >50%
2. Carex sp.		20 %	Y	FAC*	
3. Daucus carota		2 %	N	UPL	☐ 3 - Prevalence Index is ≤3.0 ¹
4. Calystegia sepium		2 %		FAC	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate
5.					supporting data in Remarks of on a separate sheet)
6.		%			☐ Problematic Hydrophytic Vegetation¹ (Explain)
7		%			¹ Indicators of hydric soil and wetland hydrology must be
8		%			present, unless disturbed or problematic
9		%			
10		%			Definitions of Vegetation Strata:
11		%			Tree – Woody plants 3 in. (7.6 cm) or more in
12		%_			diameter at breast height (DBH), regardless of height.
Woody Vine Stratum	(Plot size: <u>30'</u>)	84 % =	= Total Cover	•	Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	`	%			Herb – All herbaceous (non-woody) plants, regardless
1 2					of size, and woody plants less than 3.28 ft tall.
3.					Woody vine – All woody vines greater than 3.28 ft in
4.		<u> </u>			height.
·· -			Total Cover		
			- Total Govel		Hydrophytic Vegetation Present? ☐ Yes ☐ No
Remarks (include photo number or OBL. Hydrophytic vegetation		heet): Photo) C-12. *Assu	med FAC b	ecause most Carex sp. in the region are FAC, FACW,

Profile Descr				r confirm ti	he absence of indicators.)	
Depth	Matrix	R	edox Features		-	
(inches)	Color (moist) %	Color (moist)	%Type ¹	Loc ²	Texture	Remarks
0-12	10YR 4/2 100			-	clay loam	
		_				
		-			· ——	
¹ Type: C=Cor	ncentration, D=Depletion, F	RM=Reduced Matrix, MS	S=Masked Sand Grain	ns	² Location: PL=Pore Lining	ng, M=Matrix
Hydric Soil In	idicators:				Indicators for Problematic Hyd	Iric Soils³:
☐ Histosol (A	.1)	☐ Dark Surface (S7)) (LRR R, MLRA 149	B)	☐ 2 cm Muck (A10) (LRR K, L ,	MLRA 149B)
☐ Histic Epip	edon (A2)	☐ Polyvalue Below	Surface (S8) (MLRA	147, 148)	☐ Coast Prairie Redox (A16) (L	.RR K, L, R)
☐ Black Histin	c (A3)	☐ Thin Dark Surface	e (S9) (LRR R, MLRA	149B)	☐ 5 cm Mucky Peat or Peat (S3	B) (LRR K, L, R)
☐ Hydrogen \$	Sulfide (A4)	☐ Loamy Mucky Mir	neral (F1) (LRR K, L)		☐ Dark Surface (S7) (LRR K, L)
☐ Stratified L	ayers (A5)	☐ Loamy Gleyed Ma	atrix (F2)		☐ Polyvalue Below Surface (S8	(LRR, K, L)
☐ Depleted B	Below Dark Surface (A11)	☐ Depleted Matrix (I	F3)		☐ Thin Dark Surface (S9) (LRR	, K, L)
☐ Thick Dark	Surface (A12)	☐ Redox Dark Surfa	ace (F6)		☐ Iron-Manganese Masses (F1	2) (LRR, K, L)
☐ Sandy Muc	cky Mineral (S1)	☐ Depleted Dark Su	ırface (F7)		☐ Piedmont Floodplain Soils (F	19) (MLRA 149B)
☐ Sandy Gle	yed Matrix (S4)	☐ Redox Depression	ns (F8)		☐ Mesic Spodic (TA6) (MLRA 1	144A, 145, 149B)
☐ Sandy Red	dox (S5)				☐ Red Parent Material (F21)	
☐ Stripped M	latrix (S6)				☐ Very Shallow Dark Surface (ΓF12)
					☐ Other (Explain in Remarks)	
³ Indicators of I	hydrophytic vegetation and	wetland hydrology mus	st be present, unless	disturbed or	problematic	
Restrictive La	ayer (if observed):				Hydric Soil Present?	
Type: co	mpact soil	Depth (inches):	12		☐ Yes ☒ No	
Remarks: Hy	dric soil indicators are not	present.		I		
ı						

Project/Site: Lemoyne-Midway 138 kV Project City/County: Wood Cou	inty Sampling Date: _ 8/5/2014						
Applicant/Owner: ATSI	State: Ohio Sampling Point: SP-13						
• • • • • • • • • • • • • • • • • • • •	o, Range: T6N, R11E, S15						
Landform (hillslope, terrace, etc.) ditch Local relief (concave, convex							
Subregion (LRR or MLRA): L Lat: 41.47615 Long: -83							
Soil Map Unit Name: Hoytville clay loam, 0 to 1 percent slopes	NWI Classification: N/A						
Are climate/hydrologic conditions on the site typical for this time of year? ☐ No	(If no, explain in Remarks)						
Vegetation Soil Hydrology Significantly Disturbed? □ □ □ Are "Normal Circums	stances" present? 🛛 Yes 🗌 No						
	ain any answers in Remarks)						
Naturally 1100icinatic:							
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Yes No Remarks: Sample plot located	in PEM W-7.						
Hydrophytic Vegetation Present? □							
Hydric Soil Present?							
Wetland Hydrology Present? □							
Is the Sampled Area within a Wetland? □							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one required: check all that apply)	☐ Surface Soil Cracks (B6)						
☐ Surface Water (A1) ☐ 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 on Living Roots (C3	• • • • • • • • • • • • • • • • • • • •						
☐ 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 Aerial Imagery (B7) ☐ Other (Explain in Remarks)	☐ Microtopographic Relief (D4)						
☐ Sparsely Vegetated Concave Surface (B8)	☐ FAC-Neutral Test (D5)						
	• •						
Field Observations: Yes No Depth Describe Recorded Data (sinspections, etc.), if available	tream gauge, monitoring well, aerial photos, previous le:						
Surface Water Present?							
Water Table Present?							
Saturation Present?							
(includes capillary fringe)							
Wetland Hydrology Present? □							
Remarks: Hydrology indicators C3, D2, and D5 present.							

Tree Stratum					Sampling Point: SP-13
	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1		%			that are OBL, FACW, or FAC: 2 (A)
2.					Total Number of Dominant
3.		%			Species Across All Strata: 2 (B)
4.		%			Percent of Dominant Species
5.		%			that are OBL, FACW, or FAC:100%_(A/B)
6		%			Prevalence Index worksheet:
7		%			
			= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				OBL species 50 % x 1 = 50
1		%			FACW species50 % x 2 =100
2.		%			FAC species % x 3 = 0
3.		%			FACU species0% x 4 =0
4.		%			UPL species0 % x 5 =0
5.		%			Column Totals:100_% (A)150(B)
6		%_			Prevalence Index = B/A = 1.5
7		%			Prevalence index = B/A = 1.5
			= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum	(Plot size: <u>5'</u>)				☑ 1 - Rapid Test for Hydrophytic Vegetation
1. Phalaris arundinacea		50 %	<u> </u>	FACW	□ 2 - Dominance Test is >50%
2. Typha latifolia		50 %	Y	OBL	3 - Prevalence Index is ≤3.0¹
3		%			
4		%_			4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate
5		%_			sheet)
6		%_	-		☐ Problematic Hydrophytic Vegetation¹ (Explain)
7		%_			¹ Indicators of hydric soil and wetland hydrology must be
8.		%_			present, unless disturbed or problematic
9					Definitions of Vegetation Strata:
					Definitions of Vegetation of ata.
		%			
11.		0/			Tree – Woody plants 3 in. (7.6 cm) or more in
11.		%_			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11	(Plot size: <u>30'</u>)	%_	= Total Cover		
11	(Plot size: <u>30'</u>)	100 %	= Total Cover		diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
11	(Plot size: <u>30'</u>)	100 %	= Total Cover		diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
11	(Plot size: <u>30'</u>)	100 % 	= Total Cover		diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless
11	(Plot size: <u>30'</u>)	100 % 	= Total Cover		diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Profile Desc	ription: (Describe to th	e depth needed	to document the	e indicator o	r confirm t	the absence of indicators.)		
Depth	Matrix		Redox Fe	atures		_		
(inches)	Color (moist)	% Color (m	oist) %	Type ¹	Loc ²	Texture	Remarks	
0-12	10YR 3/2	35 10YR	5/6 15	С	М	clay loam		
12-24	10YR 5/1	35 10YR :	3/5 15	С	М	clay loam		
				-	-	- -		
		 -						
				-				
¹Type: C=Cc	oncentration, D=Depletion	n RM-Reduced M	Matrix MS-Maske	ed Sand Grain	ns		n M-Matrix	
		i, itivi–ittoduoca iv	iatrix, ivio-iviasit	ca Garia Gran	113		-	
Hydric Soil I						Indicators for Problematic Hydr		
Histosol (/	,		face (S7) (LRR F		,	2 cm Muck (A10) (LRR K, L, N	,	
☐ Histic Epip			e Below Surface			☐ Coast Prairie Redox (A16) (LR		
☐ Black Hist			k Surface (S9) (L		(149B)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
☐ Hydrogen			lucky Mineral (F1			☐ Dark Surface (S7) (LRR K, L)		
Stratified I			leyed Matrix (F2))		Polyvalue Below Surface (S8) (LRR, K, L)		
	Below Dark Surface (A1					☐ Thin Dark Surface (S9) (LRR, K, L)		
	k Surface (A12)		ark Surface (F6)			☐ Iron-Manganese Masses (F12) (LRR, K, L)		
	icky Mineral (S1)	☐ Depleted	Dark Surface (F	7)		☐ Piedmont Floodplain Soils (F19) (MLRA 149B)		
☐ Sandy Gle	eyed Matrix (S4)	☐ Redox D	epressions (F8)			☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
☐ Sandy Re	dox (S5)					☐ Red Parent Material (F21)		
☐ Stripped N	//atrix (S6)					☐ Very Shallow Dark Surface (TF12)		
						☐ Other (Explain in Remarks)		
³ Indicators of	hydrophytic vegetation a	and wetland hydro	logy must be pre	sent, unless o	disturbed o	r problematic		
Restrictive L	.ayer (if observed):					Hydric Soil Present?		
Туре:		Depth (i	nches):			⊠ Yes □ No		
Remarks: H	ydric soil indicator F6 is	present.						

Project/Site: Lemoyne-Midway	138 kV Project		City/County:	Wood County		Sampling Date: 8/5/2014	
Applicant/Owner: ATSI				State	e: Ohio	Sampling Point: SP-14	
Investigator(s): Richards, Gut	man		Section	on, Township, Ra	nge: <u>T6N, R1</u>	11E, S16	
Landform (hillslope, terrace, etc.)	hillslope		Local relief (con-	cave, convex, no	ne): convex	Slope (%): _2	
Subregion (LRR or MLRA): _L		Lat: 41.4760	093	Long:83.573	167	Datum: N/A	
Soil Map Unit Name: Hoytvill	e clay loam, 0 t	o 1 percent slop	pes		NWI Classific	cation:	
Are climate/hydrologic conditions	on the site typ	ical for this time	e of year? 🛛 Ye	s 🗆 No (- If no, explain in		
	etation Soil					,	
ĕ			Are "No	mal Circumstand	es" present?		
Naturally Problematic?			(It	needed, explain ar	ny answers in Rer	narks)	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
		es No	Remarks: This is a		-		
Hydrophytic Vegetation Present?	· [•	•		
Hydric Soil Present?							
Wetland Hydrology Present?							
Is the Sampled Area within a W	Vetland?						
HYDROLOGY		•					
Wetland Hydrology Indicators:					Secondary Inc	dicators (minimum of two required)	
Primary Indicators (minimum of o	one required; ch	<u>neck all that app</u>	o <u>ly)</u>		☐ Surface So	il Cracks (B6)	
☐ Surface Water (A1)		☐ Water-Stair	ned Leaves (B9)		☐ Drainage P	atterns (B10)	
☐ High Water Table (A2)		☐ Aquatic Fa	una (B13)		☐ Moss Trim		
☐ Saturation (A3)		☐ Marl Depos	sits (B15)		☐ Dry-Seasor	n Water Table (C2)	
☐ Water Marks (B1)		☐ Hydrogen \$	Sulfide Odor (C1)		☐ Crayfish Bu	urrows (C8)	
☐ Sediment Deposits (B2)		☐ Oxidized R	hizospheres on Livi	ng Roots (C3)		Visible on Aerial Imagery (C9)	
☐ Drift Deposits (B3)		☐ Presence of	of Reduced Iron (C4)	☐ Stunted or	Stressed Plants (D1)	
☐ Algal Mat or Crust (B4)		☐ Recent Iron	n Reduction in Tilled	Soils (C6)	Geomorphi	ic Position (D2)	
☐ Iron Deposits (B5)		☐ Thin Muck	Surface (C7)		☐ Shallow Aq	juitard (D3)	
☐ Inundation Visible on Aerial In	nagery (B7)	☐ Other (Exp	lain in Remarks)		☐ Microtopog	raphic Relief (D4)	
☐ Sparsely Vegetated Concave	Surface (B8)				☐ FAC-Neutra	al Test (D5)	
Field Observations:	Yes No	Depth			n gauge, monito	oring well, aerial photos, previous	
		(inches):	inspections, etc	c.), if available:			
Surface Water Present? Water Table Present?							
Water Table Present? Saturation Present?							
(includes capillary fringe)							
Wetland Hydrology Present?							
Remarks: Hydrology indicators a	are not present.		·				

Tree Stratum (Plot size: 30') 1 2 3 4	Absolute % Cover			
2. 3.	70 00101	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
3				that are OBL, FACW, or FAC: 1 (A)
	%			Total Number of Dominant Species Across All Strata: 3 (B)
4	%			
	%			Percent of Dominant Species that are OBL, FACW, or FAC: 33% (A/B)
5.				
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cover		OBL species0 % x 1 =0
Sapling/Shrub Stratum (Plot size: 15')				
1.	%			FACW species
2.				FAC species 0 % x 3 = 0
3.	%			FACU species14 % x 4 =56
4.	%			UPL species10 % x 5 =50
5.	%			Column Totals: 34 % (A) 126 (B)
6	%			
7	%			Prevalence Index = B/A = 3.71
		= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
1. Phalaris arundinacea	10 %	<u>Y</u>	FACW	2 - Dominance Test is >50%
2. Poa pratensis	10 %	Υ	FACU	
3. Bromus inermis		Y	UPL	☐ 3 - Prevalence Index is ≤3.0 ¹
4. Ambrosia artemiisifolia	0.01		FACU	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate
5. Schedonorus arundinaceus	2 %		FACU	sheet)
6	%			☐ Problematic Hydrophytic Vegetation¹ (Explain)
7	%_			¹ Indicators of hydric soil and wetland hydrology must be
8	%_			present, unless disturbed or problematic
9	%			Definitions of Variation Strate.
10.				Definitions of Vegetation Strata:
11.				Tree – Woody plants 3 in. (7.6 cm) or more in
12	%			diameter at breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size: 30')	34 % =	= Total Cover		Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
1	%			Herb – All herbaceous (non-woody) plants, regardless
2.				of size, and woody plants less than 3.28 ft tall.
				Woody vine – All woody vines greater than 3.28 ft in
	%			height.
3. 4.		= Total Cover		

SOIL Sampling Point: SP-14 SP-14

Profile Description				confirm th	he absence of indicators.)	
Depth	Matrix		ox Features			
	Color (moist) %	Color (moist)	% Type ¹	Loc ²	Texture	Remarks
0-12	10YR 4/2 100				clay loam	
					· ———	
					·	
1Typo: C-Concon	stration D-Donlation [— ————————————————————————————————————	Masked Sand Grains		² Location: PL=Pore Lining	a M-Matrix
**	· · · · · · · · · · · · · · · · · · ·	NIVIER Educed Matrix, MS=1	iviaskeu Sanu Grains	5		
Hydric Soil Indica	ators:				Indicators for Problematic Hyd	
☐ Histosol (A1)		☐ Dark Surface (S7) (L		•	☐ 2 cm Muck (A10) (LRR K, L, I	
☐ Histic Epipedor		Polyvalue Below Su			☐ Coast Prairie Redox (A16) (LI	
☐ Black Histic (A:		☐ Thin Dark Surface (S		149B)	☐ 5 cm Mucky Peat or Peat (S3)	
☐ Hydrogen Sulfi		Loamy Mucky Miner			☐ Dark Surface (S7) (LRR K, L)	
☐ Stratified Layer		☐ Loamy Gleyed Matri			☐ Polyvalue Below Surface (S8)	
	v Dark Surface (A11)	☐ Depleted Matrix (F3)			☐ Thin Dark Surface (S9) (LRR,	
☐ Thick Dark Sur		Redox Dark Surface			☐ Iron-Manganese Masses (F12	
☐ Sandy Mucky M		☐ Depleted Dark Surfa			☐ Piedmont Floodplain Soils (F1	
☐ Sandy Gleyed		☐ Redox Depressions	(F8)		Mesic Spodic (TA6) (MLRA 1	44A, 145, 149B)
☐ Sandy Redox (Red Parent Material (F21)	· · · · · · · · · · · · · · · · · · ·
☐ Stripped Matrix	(86)				☐ Very Shallow Dark Surface (T	F12)
31 a Parataga at Lauda	and a Comment of the comme	location discolusions and to	· · · · · · · · · · · · · · · · · · ·	a Combondon	Other (Explain in Remarks)	
		I wetland hydrology must b	be present, unless di	sturbed or		
Restrictive Layer	` ,	Donth (inches)	10		Hydric Soil Present?	
Type: compa	cted soil	Depth (inches):1	12		☐ Yes ☐ No	
Remarks: Hydric	soil indicators are not	present.				

Project/Site: Lemoyne-Midway 138	kV Project	City/County: Wood County	Sampling Date: <u>8/5/2014</u>			
Applicant/Owner: ATSI		Stat	te: Ohio Sampling Point: SP-15			
Investigator(s): Richards, Gutmar	١	Section, Township, R	ange: T6N, R11E, S16			
Landform (hillslope, terrace, etc.)	depression	Local relief (concave, convex, n	one): <u>concave</u> Slope (%): <u>2</u>			
Subregion (LRR or MLRA): L	Lat: 41.474	778 Long: <u>-83.59</u>	899 Datum: <u>NAD83</u>			
Soil Map Unit Name: Hoytville cl	ay loam, 0 to 1 percent slo	pes	NWI Classification: N/A			
Are climate/hydrologic conditions on	the site typical for this time	e of year? ⊠ Yes □ No	(If no, explain in Remarks)			
Vegetat	, ,,	A (A)	, , , , , , , , , , , , , , , , , , ,			
Significantly Disturbed?		Are "Normal Circumstar	nces" present? 🔲 Yes 🔲 No any answers in Remarks)			
Naturally Problematic?						
SUMMARY OF FINDINGS – Atta	ch site map showing	sampling point locations, tran	sects, important features, etc.			
	Yes No	Remarks: Sample plot located in I	PEM W-8.			
Hydrophytic Vegetation Present?						
Hydric Soil Present?						
Wetland Hydrology Present?						
Is the Sampled Area within a Wetl	and? ⊠ □					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one	required; check all that ap	<u>oly)</u>	□ Surface Soil Cracks (B6)			
☐ Surface Water (A1)	☐ Water-Sta	ined Leaves (B9)	☐ Drainage Patterns (B10)			
☐ High Water Table (A2)	☐ Moss Trim Lines (B16)					
☐ Saturation (A3)	☐ Dry-Season Water Table (C2)					
☐ Water Marks (B1)	☐ Crayfish Burrows (C8)					
☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Saturation Visible on Aeria						
☐ Drift Deposits (B3)	☐ Presence	of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)			
☐ Algal Mat or Crust (B4)	☐ Recent Iro	n Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)			
☐ Iron Deposits (B5)	☐ Thin Muck	Surface (C7)	☐ Shallow Aquitard (D3)			
☐ Inundation Visible on Aerial Imag	ery (B7)	olain in Remarks)	☐ Microtopographic Relief (D4)			
☐ Sparsely Vegetated Concave Sur	rface (B8)		☐ FAC-Neutral Test (D5)			
Field Observations:	Depth es No (inches):		am gauge, monitoring well, aerial photos, previous			
Surface Water Present?	<u>(inones).</u>	inspections, etc.), if available:				
		-				
]	•				
(includes capillary fringe)						
Wetland Hydrology Present?						
Remarks: Hydrology indicators C3,	B6, and D2 present.					

EGETATION - Use scientific n	ames of plants				Sampling Point: SP-15
Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1		%			that are OBL, FACW, or FAC: 1 (A)
2.		- - 70			Total Number of Dominant
3.		<u> </u>			Species Across All Strata:1_(B)
4.		%			Percent of Dominant Species
5.		%			that are OBL, FACW, or FAC: 100% (A/B)
6.		%			Providence le descripches est.
7.		%			Prevalence Index worksheet:
			= Total Cover		Total % Cover of: Multiply by:
Conling/Chruh Ctrotum	(Diot oizo: 15')				OBL species5 % x 1 =5
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				FACW species10 % x 2 =20
1		%_			FAC species 70 % x 3 = 210
2.		%			FACU species 80
3.					
4					UPL species0% x 5 =0
5		90			Column Totals:105 % (A)315(B)
6					Prevalence Index = B/A =3
			= Total Cover		
		0 %	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
			<u> </u>	FAC	□ 2 - Dominance Test is >50%
2. Poa pratensis		15 %	N	FACU	
3. Pycnanthemum virginianum			N	FACW	4 - Morphological Adaptations¹ (Provide
			<u>N</u>	OBL	supporting data in Remarks or on a separate
5. Ambrosia artemisiifolia		5 %		FACU	sheet)
6					☐ Problematic Hydrophytic Vegetation¹ (Explain)
7		%			¹ Indicators of hydric soil and wetland hydrology must be
8		90			present, unless disturbed or problematic
9					Definitions of Vegetation Strata:
10 11					_
12.		- / %			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
			= Total Cover		Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Woody Vine Stratum	(Plot size: <u>30'</u>)				
1		%			Herb – All herbaceous (non-woody) plants, regardless of 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					Hoight.
		0 %	= Total Cover		Hydrophytic Vegetation Present? ⊠ Yes ☐ No
Remarks (include photo numbers he	ere or on a separate s	heet). Photo	n C-15 Domin	ance and n	prevalence tests are met
Tremaine (morade priete marile et e me		77000/1 1 1100		.a	

Profile Desc	cription: (Describe to the c	•			the absen	ce of indicators.)	
Depth	Matrix	_	Redox Feat				
(inches)	Color (moist) %	Color (moist)	<u></u> %	Type ¹ Loc ²		Texture	Remarks
0-12	10YR 3/2 95	10YR 5/6	5	C M		clay loam	
	·						
	· ———	_					
_							
	<u> </u>						
	- ————————————————————————————————————						
		<u> </u>					
¹Type: C=Co	oncentration, D=Depletion, F	RM=Reduced Matrix, M	S=Masked	Sand Grains	2	Location: PL=Pore Lini	ng, M=Matrix
Hydric Soil I	Indicators:				Indicato	ors for Problematic Hy	dric Soils³:
☐ Histosol (A1)	☐ Dark Surface (S7	7) (LRR R,	MLRA 149B)	☐ 2 cm	Muck (A10) (LRR K, L	, MLRA 149B)
☐ Histic Epi	pedon (A2)	☐ Polyvalue Below	Surface (S	88) (MLRA 147, 148)	☐ Coas	st Prairie Redox (A16) (LRR K, L, R)
☐ Black His	tic (A3)	☐ Thin Dark Surfac	e (S9) (LR	R R, MLRA 149B)	☐ 5 cm	Mucky Peat or Peat (S	3) (LRR K, L, R)
☐ Hydrogen	Sulfide (A4)	☐ Loamy Mucky Mi	ineral (F1)	(LRR K, L)	☐ Dark	Surface (S7) (LRR K, I	_)
☐ Stratified	Layers (A5)	☐ Loamy Gleyed M	latrix (F2)		☐ Poly	value Below Surface (S	8) (LRR, K, L)
☐ Depleted	epleted Below Dark Surface (A11) Depleted Matrix (F3)				☐ Thin	Dark Surface (S9) (LRI	R, K, L)
☐ Thick Dar	k Surface (A12)	⊠ Redox Dark Surface (F6)				Manganese Masses (F	12) (LRR, K, L)
☐ Sandy Mu	ucky Mineral (S1)	☐ Depleted Dark S	urface (F7)		☐ Pied	mont Floodplain Soils (F	19) (MLRA 149B)
☐ Sandy Gl	eyed Matrix (S4)	☐ Redox Depression	ons (F8)		☐ Mesi	c Spodic (TA6) (MLRA	144A, 145, 149B)
☐ Sandy Re	edox (S5)				Red	Parent Material (F21)	
☐ Stripped I	Matrix (S6)				☐ Very	Shallow Dark Surface (TF12)
					☐ Othe	r (Explain in Remarks)	
³ Indicators of	f hydrophytic vegetation and	wetland hydrology mu	st be prese	ent, unless disturbed	or problem	atic	
Restrictive L	Layer (if observed):				Hydric	Soil Present?	
Туре:		Depth (inches):	-			□ No	
Remarks: H	lydric soil indicator F6 is pre	sent.					

Project/Site: Lemoyne-Midway 138	kV Project	City/County:	Wood County	Sampling Date: <u>8/5/2014</u>				
Applicant/Owner: ATSI			State: Ohio	Sampling Point: SP-16				
Investigator(s): Richards, Gutmar	 n	Secti	on, Township, Range: T6N					
Landform (hillslope, terrace, etc.)	terrace		ncave, convex, none): none					
, , , =	Lat: 41.	· ·	Long: -83.597617	Datum: NAD83				
• · · · · · · · · · · · · · · · · · · ·	ay loam, 0 to 1 percent		-	ssification: N/A				
Are climate/hydrologic conditions on	-	•						
			es 🔲 No (II 110, expiaii	n in Remarks)				
Vegetat Significantly Disturbed?	tion Soil Hydro	- A "NI-	ormal Circumstances" present	t? ⊠ Yes □ No				
Naturally Problematic?		_	If needed, explain any answers in					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
SUMMAKY OF FINDINGS – Atta	_							
l <u>.</u> <u>.</u>	Yes No		an upland plot ajacent to W-8	3.				
Hydrophytic Vegetation Present?								
Hydric Soil Present?								
Wetland Hydrology Present?								
Is the Sampled Area within a Wetl	and?	1						
HYDROLOGY								
Wetland Hydrology Indicators:			Secondary	y Indicators (minimum of two required)				
Primary Indicators (minimum of one	required; check all tha	<u>at apply)</u>	☐ Surface	e Soil Cracks (B6)				
☐ Surface Water (A1)	☐ Water-	r-Stained Leaves (B9)	☐ Drainag	ge Patterns (B10)				
☐ High Water Table (A2)	☐ Aquati	tic Fauna (B13)		rim Lines (B16)				
☐ Saturation (A3)	☐ Marl D	Deposits (B15)	☐ Dry-Sea	ason Water Table (C2)				
☐ Water Marks (B1)	☐ Hydro	ogen Sulfide Odor (C1)		h Burrows (C8)				
☐ Sediment Deposits (B2)	☐ Oxidiz	zed Rhizospheres on Liv		ion Visible on Aerial Imagery (C9)				
☐ Drift Deposits (B3)	☐ Preser	ence of Reduced Iron (Ca		or Stressed Plants (D1)				
☐ Algal Mat or Crust (B4)		nt Iron Reduction in Tille	i	rphic Position (D2)				
☐ Iron Deposits (B5)	_	Muck Surface (C7)	, , =	Aquitard (D3)				
☐ Inundation Visible on Aerial Imag	ery (B7)	(Explain in Remarks)		pographic Relief (D4)				
☐ Sparsely Vegetated Concave Sui	rface (B8)			eutral Test (D5)				
	Depth	h Describe Reco		onitoring well, aerial photos, previous				
Field Observations:	es No (inches		tc.), if available:	Sintoling well, aerial priotos, previous				
Surface Water Present?								
Water Table Present?								
_								
(includes capillary fringe)								
, , , , , , , , , , , , , , , , , , , ,								
Remarks: Hydrology indicators are	not present.							

		Absolute	Dominant	Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u>	(Plot size: <u>30'</u>)	% Cover	Species?	Status	Number of Dominant Species		
1		%			that are OBL, FACW, or FAC: 0 (A)		
2.		%			Total Number of Dominant		
3		<u></u> %			Species Across All Strata: 3 (B)		
4		%			Percent of Dominant Species		
5		%			that are OBL, FACW, or FAC:0%_(A/B)		
6		%			Prevalence Index worksheet:		
7		%					
		0 % =	= Total Cover				
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				OBL species0% x 1 =0		
	,	0/			FACW species0% x 2 =0		
1.					FAC species0 % x 3 =0		
2.		90			FACU species125_% x 4 =500		
3.		9/_			UPL species 40 % x 5 = 200		
4 5					· — —		
6.					Column Totals:165 % (A)700(B)		
7.		%			Prevalence Index = B/A = 4.24		
			Total Cover				
			- Total Govol		Hydrophytic Vegetation Indicators:		
Herb Stratum	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation		
1. Poa pratensis		60 %	Y	FACU	☐ 2 - Dominance Test is >50%		
2. Dipsacus laciniatus		30 %	Y	FACU	☐ 3 - Prevalence Index is ≤3.01		
3. Daucus carota			Y	UPL	☐ 4 - Morphological Adaptations¹ (Provide		
					supporting data in Remarks or on a separate		
5. Ambrosia artemisiifolia		15 %			sheet)		
				UPL	☐ Problematic Hydrophytic Vegetation¹ (Explain)		
7		<u> </u>			¹ Indicators of hydric soil and wetland hydrology must be		
8		%			present, unless disturbed or problematic		
9.		%			Definitions of Vegetation Strata:		
10		9/					
11		- / %			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
12			Total Cayar				
		165 % =	= Total Cover		Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
Woody Vine Stratum	(Plot size: <u>30'</u>)						
1					Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
2		%			or size, and woody plants less than 3.20 it tail.		
3		%			Woody vine – All woody vines greater than 3.28 ft in height.		
4		%			Height.		
		0 % =	= Total Cover		Hydrophytic Vegetation Present? ☐ Yes ☐ No		
Demonto (include abote acceptant base		/	0.40		4-41		
Remarks (include photo numbers here	e or on a separate s	neet). Photo	0 C-16. Hydro	priytic vege	etation is not present.		

Sampling Point: SP-16

Profile Desc	ription: (Describe t	o the d	epth needed to docu	ment the	indicator or	confirm t	the absence of indicators.)		
Depth	Matrix		F	Redox Fe			_		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-12	10YR 3/2	100					clay loam 		
12-16	10YR 4/2	97	10YR 5/6	5	C	M	clay loam		
	·		_						
	· ——								
_			_	_					
_				_					
							- 		
					<u> </u>		_ 		
-	·								
¹Type: C=Co	oncentration, D=Depl	etion, R	M=Reduced Matrix, M	S=Maske	ed Sand Grair	IS	² Location: PL=Pore Lining, I	V=Matrix	
Hydric Soil I	ndicators:						Indicators for Problematic Hydric	Soils ³ :	
☐ Histosol (/	A1)		☐ Dark Surface (S7	7) (LRR R	R, MLRA 1496	3)	☐ 2 cm Muck (A10) (LRR K, L, ML	.RA 149B)	
☐ Histic Epip	pedon (A2)		☐ Polyvalue Below	Surface	(S8) (MLRA 1	47, 148)	☐ Coast Prairie Redox (A16) (LRR	K, L, R)	
☐ Black Hist	tic (A3)		☐ Thin Dark Surfac	e (S9) (L	RR R, MLRA	149B)	☐ 5 cm Mucky Peat or Peat (S3) (L	.RR K, L, R)	
☐ Hydrogen	Sulfide (A4)		☐ Loamy Mucky Mi	ineral (F1) (LRR K, L)		☐ Dark Surface (S7) (LRR K, L)		
☐ Stratified	stratified Layers (A5)						☐ Polyvalue Below Surface (S8) (L	.RR, K, L)	
☐ Depleted	☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3)						☐ Thin Dark Surface (S9) (LRR, K,	, L)	
☐ Thick Dar	k Surface (A12)	112) Redox Dark Surface (F6)					☐ Iron-Manganese Masses (F12) (LRR, K, L)	
☐ Sandy Mu	ucky Mineral (S1)		☐ Depleted Dark S	urface (F	7)		☐ Piedmont Floodplain Soils (F19) (MLRA 149B)		
☐ Sandy Gle	eyed Matrix (S4)		☐ Redox Depression	ons (F8)			☐ Mesic Spodic (TA6) (MLRA 144	A, 145, 149B)	
☐ Sandy Re	edox (S5)						☐ Red Parent Material (F21)		
☐ Stripped N	Matrix (S6)						☐ Very Shallow Dark Surface (TF1	2)	
							☐ Other (Explain in Remarks)		
³ Indicators of	hydrophytic vegetati	on and	wetland hydrology mu	st be pre	sent, unless d	isturbed o	or problematic		
Restrictive L	ayer (if observed):						Hydric Soil Present?		
Type: c	ompacted soil		Depth (inches):	16			☐ Yes ⊠ No		
Remarks: H	lydric soil indicators a	re not p	resent.						

Project/Site: Lemoyne-Midway 138	kV Project	City/County:Lucas County	Sampling Date: <u>8/6/2014</u>
Applicant/Owner: ATSI		Stat	te: Ohio Sampling Point: SP-17
Investigator(s): Richards, Gutmar		Section, Township, R	ange: T6N, R10E, S18
Landform (hillslope, terrace, etc.)	depression	Local relief (concave, convex, n	·
` ' ' -	Lat: 41.4742		
	amy fine sand, 2 to 6 percer		NWI Classification: N/A
•	•	•	
Are climate/hydrologic conditions on			(If no, explain in Remarks)
Vegetati Significantly Disturbed? Vegetati	ion Soil Hydrology	Are "Normal Circumstar	nces" present?
Significantly Disturbed?			any answers in Remarks)
	<u> </u>		
SUMMARY OF FINDINGS – Atta	ch site map showing s		-
	Yes No	Remarks : Sample plot located in I recently burned.	PEM W-9. There is evidence that this area was
Hydrophytic Vegetation Present?		recently burned.	
Hydric Soil Present?			
Wetland Hydrology Present?			
Is the Sampled Area within a Wetla	and?		
HYDROLOGY			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one	required; check all that app	o <u>ly)</u>	☐ Surface Soil Cracks (B6)
☐ Surface Water (A1)	☐ Water-Stair	ned Leaves (B9)	☑ Drainage Patterns (B10)
☐ High Water Table (A2)	☐ Aquatic Fa	una (B13)	☐ Moss Trim Lines (B16)
☐ Saturation (A3)	☐ Marl Depos	sits (B15)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydrogen \$	Sulfide Odor (C1)	☐ Crayfish Burrows (C8)
☐ Sediment Deposits (B2)	☐ Oxidized R	hizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3)	☐ Presence of	of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)
☐ Algal Mat or Crust (B4)	☐ Recent Iron	n Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)
☐ Iron Deposits (B5)	☐ Thin Muck	Surface (C7)	☐ Shallow Aquitard (D3)
☐ Inundation Visible on Aerial Imag	ery (B7)	lain in Remarks)	☐ Microtopographic Relief (D4)
☐ Sparsely Vegetated Concave Sur		,	☐ FAC-Neutral Test (D5)
	Depth	Describe Recorded Data (strea	am gauge, monitoring well, aerial photos, previous
Field Observations:	es No <u>(inches):</u>	inspections, etc.), if available:	arri gaugo, montornig won, acriai priotos, previous
Surface Water Present?			
Water Table Present?			
(includes capillary fringe)	3		
Remarks: Hydrology indicators B10	, D2, and D5 present.		

Tree Stratum					Sampling Point: SP-17
·	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
1		- 70 %			Total Number of Dominant
2		- /0			Species Across All Strata: 2 (B)
4		- /0			Percent of Dominant Species
5.		%			that are OBL, FACW, or FAC: 100% (A/B)
6.		%			
7.		%			Prevalence Index worksheet:
			= Total Cover		Total % Cover of:Multiply by:
					OBL species5 % x 1 =5
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				FACW species 0 % x 2 = 0
Cephalanthus occidentalis		5 %	Y	OBL	FAC species 2 % x 3 = 6
2		<u></u> %			
3		%			FACU species0 % x 4 =0
4		<u></u> %			UPL species0% x 5 =0
5		%			Column Totals: 7 % (A)11(B)
6		%_			Prevalence Index = B/A =1.57
7		%			Trevalence mack = B// = 1.07
			Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
4 Taylordandran radioons		2.0/	Υ	EAC	
2		- /0			□ 3 - Prevalence Index is ≤3.0¹
4.		- / %			☐ 4 - Morphological Adaptations¹ (Provide
5		<u> </u>			supporting data in Remarks or on a separate sheet)
6.		%			Problematic Hydrophytic Vegetation¹ (Explain)
7.		%			
8.		%			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
9.		%			1
		%			Definitions of Vegetation Strata:
v		%			
					Tree – Woody plants 3 in. (7.6 cm) or more in
1.		%			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
1		%			
1	(Plot size: <u>30</u>)				diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
1	(Plot size: <u>30</u>)	2% =	 = Total Cover		diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants less than 3 in. DBH
2	(Plot size: <u>30</u>)		= Total Cover		diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum 1.	(Plot size: <u>30</u>)		= Total Cover		diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless

Profile Desc	ription: (Describe	to the d	epth needed to docu	ment the	indicator or	confirm t	the absence of indicators.)		
Depth	Matrix		_ <u> </u>	Redox Fea			_		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-20	10YR 5/2	80	10YR 5/3	15	<u>D</u>	M	clay loam		
20.24	40VP F/2		10YR 5/6	5	C	M			
20-24	10YR 5/2	80	10YR 5/6	20	C	M	clay loam		
					·				
			_						
		-				-			
	=	-			·	-			
			-		· ——				
¹ Type: C=Co	oncentration, D=Depl	etion, R	M=Reduced Matrix, M	IS=Maske	ed Sand Grain	าร	² Location: PL=Pore Lining	g, M=Matrix	
Hydric Soil I	ndicators:						Indicators for Problematic Hydr	ric Soils³:	
☐ Histosol (A	A1)		☐ Dark Surface (S7) (LRR R	, MLRA 149I	B)	☐ 2 cm Muck (A10) (LRR K, L, I	MLRA 149B)	
☐ Histic Epip	pedon (A2)		☐ Polyvalue Below	Surface ((S8) (MLRA 1	147, 148)	☐ Coast Prairie Redox (A16) (LF	RR K, L, R)	
☐ Black Hist	ic (A3)		☐ Thin Dark Surfac	e (S9) (L l	RR R, MLRA	149B)	☐ 5 cm Mucky Peat or Peat (S3)) (LRR K, L, R)	
☐ Hydrogen	Sulfide (A4)	4) Loamy Mucky Mineral (F1) (LRR K, L)					☐ Dark Surface (S7) (LRR K, L)		
☐ Stratified I	☐ Stratified Layers (A5) ☐ Loamy Gleyed Matrix (F2)						☐ Polyvalue Below Surface (S8)	(LRR, K, L)	
☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3)					☐ Thin Dark Surface (S9) (LRR,	K, L)			
☐ Thick Darl	Thick Dark Surface (A12) Redox Dark Surface (F6)					☐ Iron-Manganese Masses (F12	2) (LRR, K, L)		
☐ Sandy Mu	icky Mineral (S1)		☐ Depleted Dark Surface (F7)				☐ Piedmont Floodplain Soils (F19) (MLRA 149B)		
☐ Sandy Gle	eyed Matrix (S4)		☐ Redox Depression	ons (F8)			☐ Mesic Spodic (TA6) (MLRA 14	44A, 145, 149B)	
☐ Sandy Re	dox (S5)						☐ Red Parent Material (F21)		
☐ Stripped N	/latrix (S6)						☐ Very Shallow Dark Surface (T	F12)	
							☐ Other (Explain in Remarks)		
³ Indicators of	hydrophytic vegetat	ion and	wetland hydrology mu	st be pres	sent, unless o	listurbed o	or problematic		
Restrictive L	.ayer (if observed):						Hydric Soil Present?		
Туре:			Depth (inches):				⊠ Yes □ No		
Remarks: H	ydric soil indicator F	3 is pres	ent.						

Project/Site: Lemoyne-Midway 138	kV Project	City/County: Lucas Coun	sy Sampling Date: 8/6/2014
Applicant/Owner: ATSI		St	ate: Ohio Sampling Point: SP-18
Investigator(s): Richards, Gutman		Section, Township,	Range: T6N, R10E, S18
Landform (hillslope, terrace, etc.)	hillslope	Local relief (concave, convex,	
· · · · · · · · ·	Lat: 41.47	<u> </u>	
	my fine sand, 2 to 6 perc		NWI Classification: UPL
Are climate/hydrologic conditions on		•	
			(If no, explain in Remarks)
Vegetation Significantly Disturbed?	ion Soil Hydrolog	y Are "Normal Circumsta	ances" present? X Yes No
Naturally Problematic?			n any answers in Remarks)
			to immediate footures ato
SUMMARY OF FINDINGS – Attac	-	1	
	Yes No	Remarks: This is an upland plot	adjacent to W-9.
Hydrophytic Vegetation Present?			
Hydric Soil Present?			
Wetland Hydrology Present?			
Is the Sampled Area within a Wetla	and?		
HYDROLOGY			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one i	required; check all that a	o <u>ply)</u>	☐ Surface Soil Cracks (B6)
☐ Surface Water (A1)	☐ Water-St	ained Leaves (B9)	☐ Drainage Patterns (B10)
☐ High Water Table (A2)	☐ Aquatic F	auna (B13)	☐ Moss Trim Lines (B16)
☐ Saturation (A3)	☐ Marl Dep	osits (B15)	☐ Dry-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydroger	Sulfide Odor (C1)	☐ Crayfish Burrows (C8)
☐ Sediment Deposits (B2)	☐ Oxidized	Rhizospheres on Living Roots (C3)	
☐ Drift Deposits (B3)	☐ Presence	of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)
☐ Algal Mat or Crust (B4)	☐ Recent Ir	on Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)
☐ Iron Deposits (B5)	☐ Thin Muc	k Surface (C7)	☐ Shallow Aquitard (D3)
☐ Inundation Visible on Aerial Image	ery (B7)	plain in Remarks)	☐ Microtopographic Relief (D4)
☐ Sparsely Vegetated Concave Surf	face (B8)		☐ FAC-Neutral Test (D5)
	Depth	Describe Recorded Data (stru	eam gauge, monitoring well, aerial photos, previous
Field Observations: Ye		inspections, etc.), if available	
Surface Water Present?		_ `	
Water Table Present?	□	_	
Saturation Present?	□ 🛮	_	
(includes capillary fringe)			
Wetland Hydrology Present?			
Remarks: Hydrology indicators are n	not present.		

Tree Stratum (Plot size: 30') Absolute % Cover Species? Status Status Status Numb that ar Total from that ar Total Species? 1. % — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — — —	reach Test worksheet: er of Dominant Species re OBL, FACW, or FAC:		
1.	re OBL, FACW, or FAC:		
2.	Number of Dominant es Across All Strata: 2 (B) Int of Dominant Species re OBL, FACW, or FAC: 0% (A/B) Ilence Index worksheet: Fotal % Cover of: Multiply by: species 9% x 1 = 9% W species 9% x 2 = 9% species 9% x 3 = 9% U species 9% x 4 = 9% species 9% x 5 = 9% Improve Index = B/A = 9% In Totals: 9% (A) 9% (B) In Totals: 9% (B)		
3.	es Across All Strata:		
4.	re OBL, FACW, or FAC:		
5. % that are 6. % Preval 7. % O% 8 O% TOTAL Cover OBL FAC 1. % FAC 2. % FAC 3. % UPL 5. % Colu 6. % Preval 4. % Hydro 4. O% TOTAL Cover Hydro Herb Stratum (Plot size: 5') 1- 1. Bromus inermis 70 % Y UPL 2. Trifolium pratense 20 % Y FACU 3. Taraxum officinale 10 % N FACU 4. % 0 4- 5. % 0 Pro	re OBL, FACW, or FAC:		
6. 7.	Fotal % Cover of: Multiply by:		
7.	Species		
Sapling/Shrub Stratum (Plot size: 15') Total Cover 1. % FAC' 2. % FAC' 3. % UPL 5. % Colu 6. % Preva Herb Stratum (Plot size: 5') Hydro 1. Bromus inermis 70 % Y UPL □ 2 - 2. Trifolium pratense 20 % Y FACU □ 3 - 3. Taraxum officinale 10 % N FACU □ 4 - 5. % □ Pro 6. % □ Pro	species		
Sapling/Shrub Stratum	w species 0% 0% 0% 0% 0% 0% 0% 0%		
FAC FAC	species% $\times 3 = 0$ U species% $\times 4 = 0$ species% $\times 5 = 0$ mn Totals:0% (A)0 (B) Alence Index = B/A = Thyphytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is $\leq 3.0^{1}$		
1. % FAC 2. % FAC 3. % UPL 4. % UPL 5. % Colu 6. % Preva 4. % Hydro 6. 0% FACU Herb Stratum (Plot size: 5') Hydro 1. Bromus inermis 70 % Y UPL 2. Trifolium pratense 20 % Y FACU 3 - 3. Taraxum officinale 10 % N FACU 4 - 5. % — — Pro	species% $\times 3 = 0$ U species% $\times 4 = 0$ species% $\times 5 = 0$ mn Totals:0% (A)0 (B) Alence Index = B/A = Thyphytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is $\leq 3.0^{1}$		
2.	U species 0% x 4 = 0 species $\%$ x 5 = 0 mn Totals: 0% (A) 0 (B) Alence Index = B/A = 0% Phytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is $\le 3.0^{1}$		
3.	species $ \% $ x 5 = $ 0 $ mn Totals: $ 0 \% $ (A) $ 0 $ (B) Alence Index = B/A =		
4. % UPL 5. % Colu 6. % Preva 7. % W Hydro Herb Stratum (Plot size: 5') Hydro 1. Bromus inermis 70 % Y UPL 2 - 2. Trifolium pratense 20 % Y FACU 3 - 3. Taraxum officinale 10 % N FACU 4 - 5. % — — Pro 6. % — — Pro	mn Totals: 0% (A) 0 (B) Alence Index = B/A = Phytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is $\le 3.0^{1}$		
6.	phytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤3.0¹		
7	phytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤3.0¹		
1 -	phytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤3.0¹		
Herb Stratum (Plot size: 5') □ 1 - 1. Bromus inermis 70 % Y UPL □ 2 - 2. Trifolium pratense 20 % Y FACU □ 3 - 3. Taraxum officinale 10 % N FACU □ 4 - 4. □ % □ 4 - 5. □ % □ Pro 6. □ % □ Pro	Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤3.0¹		
1. Bromus inermis 70 % Y UPL □ 2 - 2. Trifolium pratense 20 % Y FACU □ 3 - 3. Taraxum officinale 10 % N FACU □ 4 - 4. % □ 4 - 5. % □ Pro 6. % □ Pro	Dominance Test is >50% Prevalence Index is ≤3.0¹		
2. Trifolium pratense 20 % Y FACU 3 - 3. Taraxum officinale 10 % N FACU 4 - 4. % - - 4 - 5. % - □ Pro 6. % □ Pro	Prevalence Index is ≤3.0 ¹		
2. Trifolium pratense 20 % Y FACU 3 - 3. Taraxum officinale 10 % N FACU 4 - 4. % - - 4 - 5. % - □ Pro 6. % □ Pro	Prevalence Index is ≤3.0 ¹		
3. Taraxum officinale 10 % N FACU 4. % 5. % 6. % Pro			
4			
5	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate		
6 <u>%</u> 🗆 Pro	sheet)		
	oblematic Hydrophytic Vegetation ¹ (Explain)		
7	ttors of hydric soil and wetland hydrology must be		
8 <u>%</u> present	t, unless disturbed or problematic		
9. <u>%</u>	tions of Vegetation Strata:		
70	none of Vegetation of ata.		
	Woody plants 3 in. (7.6 cm) or more in ter at breast height (DBH), regardless of height.		
	er at breast height (DBH), regardless of height.		
· ·	g/Shrub – Woody plants less than 3 in. DBH eater than 3.28 ft (1 m) tall.		
	- All herbaceous (non-woody) plants, regardless		
2 % of size,	, and woody plants less than 3.28 ft tall.		
3 % Woody	y vine - All woody vines greater than 3.28 ft in		
4height.			
= Total Cover Hydrop	phytic Vegetation Present? ☐ Yes ☒ No		

	lepth needed to document the indicator or confirm t	the absence of indicators.)
Depth Matrix	Redox Features	-
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-8 10YR 4/2 100		clay loam
		-
¹ Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, MS=Masked Sand Grains	² Location: PL=Pore Lining, M=Matrix
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
☐ Histosol (A1)	☐ Dark Surface (S7) (LRR R, MLRA 149B)	☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
☐ Histic Epipedon (A2)	☐ Polyvalue Below Surface (S8) (MLRA 147, 148)	☐ Coast Prairie Redox (A16) (LRR K, L, R)
☐ Black Histic (A3)	☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)	☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
☐ Hydrogen Sulfide (A4)	☐ Loamy Mucky Mineral (F1) (LRR K, L)	☐ Dark Surface (S7) (LRR K, L)
☐ Stratified Layers (A5)	☐ Loamy Gleyed Matrix (F2)	☐ Polyvalue Below Surface (S8) (LRR, K, L)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Matrix (F3)	☐ Thin Dark Surface (S9) (LRR, K, L)
☐ Thick Dark Surface (A12)	☐ Redox Dark Surface (F6)	☐ Iron-Manganese Masses (F12) (LRR, K, L)
☐ Sandy Mucky Mineral (S1)	☐ Depleted Dark Surface (F7)	☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
☐ Sandy Gleyed Matrix (S4)	☐ Redox Depressions (F8)	☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
☐ Sandy Redox (S5)		☐ Red Parent Material (F21)
☐ Stripped Matrix (S6)		☐ Very Shallow Dark Surface (TF12)
		☐ Other (Explain in Remarks)
³ Indicators of hydrophytic vegetation and	wetland hydrology must be present, unless disturbed o	or problematic
Restrictive Layer (if observed):		Hydric Soil Present?
Type: compacted soil	Depth (inches): 8	☐ Yes ☒ No
Remarks: Hydric soil indicators are not p	present.	

Project/Site: Lemoyne-Midway	138 kV Project	t		City/County:	Wood County	/	Sampling Date:11/14/2016
Applicant/Owner: ATSI					Sta	ate: Ohio	Sampling Point: SP-101
Investigator(s): Gutman, Boatr	ight			Section	n, Township, F	Range: T6N, F	R12E, S15
Landform (hillslope, terrace, etc.)	RR ditch		Lo	ocal relief (cond	cave, convex, r	none): none	Slope (%): 0
Subregion (LRR or MLRA): _L		Lat: 41.475	78		Long:83.46	689	Datum: NAD83
Soil Map Unit Name: Hoytvill	e clay loam, 0	to 1 percent slo	pes			NWI Classi	fication: N/A
Are climate/hydrologic conditions	on the site ty	pical for this time	e of ye	ar? 🛚 Ye	s 🗌 No	(If no, explain i	n Remarks)
	etation So					, ,	,
•		, ,,		Are "Nor	mal Circumsta	nces" present?	⊠ Yes □ No
Naturally Problematic?				(If	needed, explain	any answers in R	emarks)
SUMMARY OF FINDINGS – A	Attach site n	nap showing	samp	ling point lo	cations, trai	nsects, impor	tant features, etc.
	,	Yes No	Rem	arks: Sample	plot located in	PEM W-2.	
Hydrophytic Vegetation Present?)						
Hydric Soil Present?		\boxtimes					
Wetland Hydrology Present?							
Is the Sampled Area within a V	Vetland?						
HYDROLOGY			•				
Wetland Hydrology Indicators:						Secondary I	ndicators (minimum of two required)
Primary Indicators (minimum of o	one required; o	check all that ap	o <u>ly)</u>			☐ Surface S	Soil Cracks (B6)
☐ Surface Water (A1)		☐ Water-Sta	ined Le	eaves (B9)		☐ Drainage	Patterns (B10)
☐ High Water Table (A2)		☐ Aquatic Fa	auna (E	313)		☐ Moss Trin	n Lines (B16)
Saturation (A3)		☐ Marl Depo	sits (B	15)		☐ Dry-Seas	on Water Table (C2)
☐ Water Marks (B1)		☐ Hydrogen	Sulfide	e Odor (C1)		☐ Crayfish E	Burrows (C8)
☐ Sediment Deposits (B2)		Oxidized F	Rhizosp	pheres on Livii	ng Roots (C3)	☐ Saturation	n Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3)		☐ Presence	of Red	luced Iron (C4))	☐ Stunted o	r Stressed Plants (D1)
☐ Algal Mat or Crust (B4)		☐ Recent Iro	n Redi	uction in Tilled	Soils (C6)	□ Geomorp	hic Position (D2)
☐ Iron Deposits (B5)		☐ Thin Muck	Surfac	ce (C7)		☐ Shallow A	quitard (D3)
☐ Inundation Visible on Aerial Ir	nagery (B7)	☐ Other (Exp	olain in	Remarks)		☐ Microtopo	ographic Relief (D4)
☐ Sparsely Vegetated Concave	Surface (B8)						tral Test (D5)
Field Observations:	Yes No	Depth				am gauge, mon	itoring well, aerial photos, previous
Surface Water Present?		(inches):	ir	nspections, etc	:.), if available:		
Water Table Present?		8	-				
Saturation Present?		4	•				
(includes capillary fringe)			-				
Wetland Hydrology Present?							
Remarks: Wetland hydrology ind	dicators A2, A	3, C3, D2, and D	5 are	present.			

Tree Stratum (Plot size: 30') 1	% % % %	Dominant Species?		Dominance Test worksheet: Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 2 (B)
2	% % % %			Total Number of Dominant Species Across All Strata: 2 (B)
2	% % % %			Species Across All Strata: 2 (B)
3	% % %			
5. 6.	<u>%</u> %			Demonstrat Demois and On a size
6	%			Percent of Dominant Species
	%			that are OBL, FACW, or FAC: 50% (A/B)
7				Prevalence Index worksheet:
	%			Total % Cover of:Multiply by:
	0 % =	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15')				OBL species50 % x 1 =50
	0.4			FACW species5 % x 2 =10
1.	%			FAC species6 % x 3 =18
2.				FACU species20 % x 4 =80
3				UPL species % x 5 = _0
4. 5.				
6				Column Totals:81 % (A)158 (B)
7				Prevalence Index = B/A =1.95
		= Total Cover		Hadron bad a Manadad and Indiana
		- rotal covol		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: <u>5'</u>)				1 - Rapid Test for Hydrophytic Vegetation
1. Typha glauca		<u> </u>	OBL	☐ 2 - Dominance Test is >50%
2. Setaria faberi	20 %	<u> </u>	FACU	□ 3 - Prevalence Index is ≤3.0¹
3. Spartina pectinata		N	FACW	4 - Morphological Adaptations ¹ (Provide
4. Carex molesta	2 %	N	FAC	supporting data in Remarks or on a separate
5. Panicum virgatum	2 %		FAC	sheet)
6. Setaria pumila			-	☐ Problematic Hydrophytic Vegetation¹ (Explain)
7				¹ Indicators of hydric soil and wetland hydrology must be
8				present, unless disturbed or problematic
9				Definitions of Vegetation Strata:
11.				- W
12.	%			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
		= Total Cover		
Woody Vine Stratum (Plot size: 30')		- 1 oldi 00voi		Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
1	%_			Herb – All herbaceous (non-woody) plants, regardless
2	%			of size, and woody plants less than 3.28 ft tall.
3	%_			Woody vine – All woody vines greater than 3.28 ft in
4	%			height.
	Λ% .	= Total Cover		Hydrophytic Vegetation Present? ⊠ Yes ☐ No

Profile Desc		the de				confirm t	the absence of indicators.)		
Depth (in a local)	Matrix	0.1		Redox Fea		. 2	-	5 .	
(inches) 0-12	Color (moist) 2.5Y 3/1	% 80	Color (moist) 5YR 4/4	<u>%</u> 10	Type ¹ C	Loc ²	Texture	Remarks	
0-12	2.51 3/1	00	5Y 6/4	10		M	clay loam		
12-24	2.5Y 5/2	95	10YR 5/6	5		M	clay loam	gravel present	
_								3 - 1	
							_		
					<u> </u>				
				-			_		
				-		-		<u> </u>	
			-				_		
							_		
¹Type: C=Co	oncentration, D=Deplet	ion, RI	M=Reduced Matrix, M	S=Maske	ed Sand Grain	ns	² Location: PL=Pore Lin	ing, M=Matrix	
Hydric Soil	Indicators:						Indicators for Problematic Hy	/dric Soils³:	
☐ Histosol (A1)		☐ Dark Surface (S7	7) (LRR R	, MLRA 149I	В)	☐ 2 cm Muck (A10) (LRR K, L	., MLRA 149B)	
☐ Histic Epi	pedon (A2)		☐ Polyvalue Below	Surface ((S8) (MLRA 1	147, 148)	☐ Coast Prairie Redox (A16) (
☐ Black His	tic (A3)		☐ Thin Dark Surfac	e (S9) (L l	RR R, MLRA	149B)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
☐ Hydrogen	Sulfide (A4)		☐ Loamy Mucky Mi	ineral (F1) (LRR K, L)	☐ Dark Surface (S7) (LRR K, L)			
☐ Stratified	☐ Stratified Layers (A5) ☐ Loamy Gleyed Matrix (F2)						☐ Polyvalue Below Surface (S8) (LRR, K, L)		
☐ Depleted	☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3)						☐ Thin Dark Surface (S9) (LRR, K, L)		
☐ Thick Dar	Thick Dark Surface (A12) Redox Dark Surface (F6)						☐ Iron-Manganese Masses (F12) (LRR, K, L)		
☐ Sandy Mu	ucky Mineral (S1)		☐ Depleted Dark S	urface (F7	7)		☐ Piedmont Floodplain Soils (F19) (MLRA 149B)		
☐ Sandy GI	eyed Matrix (S4)		☐ Redox Depressions (F8)				☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
☐ Sandy Re	edox (S5)						☐ Red Parent Material (F21)		
☐ Stripped I	Matrix (S6)						☐ Very Shallow Dark Surface (TF12)		
							☐ Other (Explain in Remarks)		
³ Indicators of	f hydrophytic vegetation	n and v	vetland hydrology mu	st be pres	sent, unless o	listurbed o	or problematic		
	Layer (if observed):						Hydric Soil Present?		
Type:			Depth (inches):				☑ Yes ☐ No		
Remarks: H	lydric soil indicator F6 i	s pres	ent.						

Project/Site: Lemoyne-Midway 1	138 kV Project		City/County:V	Vood County	Sampling Date:11/14/2016
Applicant/Owner: ATSI				State: O	hio Sampling Point: SP-102
Investigator(s): Gutman, Boatri	ight		Section,	Township, Range:	T6N, R12E, S15
Landform (hillslope, terrace, etc.)	terrace			/e, convex, none):	
Subregion (LRR or MLRA): L		Lat: 41.475	_	ng: <u>-83.4688</u>	Datum: NAD83
Soil Map Unit Name: Hoytville	e clay loam, 0 t	to 1 percent slo	pes	NW	/I Classification: N/A
Are climate/hydrologic conditions	•	•		No (If no, €	explain in Remarks)
	etation Soil			<u> </u>	,
			Are "Norma	al Circumstances" pi	resent? 🛛 Yes 🗌 No
			(If ne	eded, explain any ansv	wers in Remarks)
SUMMARY OF FINDINGS – A	ttach site m	ap showing s	sampling point loca	ations, transects,	, important features, etc.
		es No	Remarks: Upland sai		<u>-</u>
Hydrophytic Vegetation Present?			The state of the s		, <u>-</u>
Hydric Soil Present?					
Wetland Hydrology Present?					
Is the Sampled Area within a W					
•					_
HYDROLOGY					
Wetland Hydrology Indicators:				Seco	ondary Indicators (minimum of two required)
Primary Indicators (minimum of o	ne required; ch	<u>neck all that app</u>	o <u>ly)</u>		urface Soil Cracks (B6)
☐ Surface Water (A1)		☐ Water-Stai	ned Leaves (B9)	□ D	rainage Patterns (B10)
☐ High Water Table (A2)		□м	loss Trim Lines (B16)		
☐ Saturation (A3)		□ D	☐ Dry-Season Water Table (C2)		
☐ Water Marks (B1)		□с	☐ Crayfish Burrows (C8)		
☐ Sediment Deposits (B2)		☐ Oxidized R	hizospheres on Living	Roots (C3)	aturation Visible on Aerial Imagery (C9)
☐ Drift Deposits (B3)		☐ Presence of	of Reduced Iron (C4)	☐ Si	tunted or Stressed Plants (D1)
☐ Algal Mat or Crust (B4)		☐ Recent Iro	n Reduction in Tilled So	oils (C6)	eeomorphic Position (D2)
☐ Iron Deposits (B5)		☐ Thin Muck	Surface (C7)		hallow Aquitard (D3)
☐ Inundation Visible on Aerial Im	nagery (B7)	Other (Exp	lain in Remarks)		licrotopographic Relief (D4)
☐ Sparsely Vegetated Concave	Surface (B8)				AC-Neutral Test (D5)
		Depth	Describe Recorde	ed Data (stream gau	ge, monitoring well, aerial photos, previous
Field Observations:	Yes No	(inches):	inspections, etc.),		g-,, p, p, p
Surface Water Present?					
Water Table Present?					
Saturation Present?					
(includes capillary fringe) Wetland Hydrology Present?					
Remarks: No wetland hydrology	indicators are p	present.			

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	(Plot size: <u>30'</u>)	% Cover	Species?	Status	Number of Dominant Species
1		%			that are OBL, FACW, or FAC: 1 (A)
2		%			Total Number of Dominant
3		%			Species Across All Strata: 2 (B)
4		%			Percent of Dominant Species that are OBL, FACW, or FAC: 50% (A/B)
5		%			that are OBE, I AOW, OF I AC.
6		%			Prevalence Index worksheet:
7					Total % Cover of: Multiply by:
		0 % =	= Total Cover	•	
Sapling/Shrub Stratum	(Plot size: 15')				OBL species0 % x 1 =0
Rhamnus cathartica		5 º/	Υ	EAC	FACW species 2 % x 2 = 4
2.					FAC species5 % x 3 =15
3.		——————————————————————————————————————			FACU species82 % x 4 =328
4.		%			UPL species 0 % x 5 = 0
5.		%			Column Totals:89 % (A)347(B)
6.		%			
7.		%			Prevalence Index = B/A = 3.9
			= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum	(Plot size: 5')				
	(Flot Size. <u>5</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
·				FACU	2 - Dominance Test is >50%
Spartina pectinata		2 %	N	FACW	☐ 3 - Prevalence Index is ≤3.0 ¹
3. Oenothera biennis		2 %			☐ 4 - Morphological Adaptations¹ (Provide
4		90			supporting data in Remarks or on a separate sheet)
5					
6		- /0 %			☐ Problematic Hydrophytic Vegetation¹ (Explain)
7 8		%			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
9.					present, unless disturbed of problematic
10.		%			Definitions of Vegetation Strata:
11.		%			Tree – Woody plants 3 in. (7.6 cm) or more in
12.		%			diameter at breast height (DBH), regardless of height.
			= Total Cover		Sapling/Shrub – Woody plants less than 3 in. DBH
Woody Vine Stratum	(Plot size: <u>30'</u>)				and greater than 3.28 ft (1 m) tall.
1		%			Herb - All herbaceous (non-woody) plants, regardless
2					of size, and woody plants less than 3.28 ft tall.
3		%			Woody vine – All woody vines greater than 3.28 ft in
4		%			height.
		0 % =	= Total Cover		Hydrophytic Vegetation Present? ☐ Yes ☒ No
Remarks (include photo numbers	here or on a separate s	heet): Photo	C-20. Hydro	phytic vege	etation is not present.
,	,	,	,	. , .	·

Sampling Point: SP-102

Depth Matrix Redox Features Type' Loc² Texture Remarks	Profile Desc				onfirm the absence of indicators.)			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains Coastion: PL=Pore Lining, M=Matrix Coast								
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains Cocation: PL=Pore Lining, M=Matrix Cocation: PLapore Lining Cocation: PLapore Lining Cocation: PLapore Lining Cocatio						Remarks		
Mydric Soil Indicators:	0-12	10YR 3/1 98	7.5 YR 5/2		M Silt loam			
Mydric Soil Indicators:								
Mydric Soil Indicators:								
Mydric Soil Indicators:						-		
Mydric Soil Indicators:								
Mydric Soil Indicators:								
Mydric Soil Indicators:						_		
Mydric Soil Indicators:								
Mydric Soil Indicators:						<u> </u>		
Mydric Soil Indicators:								
Mydric Soil Indicators:			<u> </u>			-		
Histosol (A1)	¹Type: C=Co	oncentration, D=Depletion,	RM=Reduced Matrix, MS	S=Masked Sand Grains	² Location: PL=Pore Lin	ning, M=Matrix		
Histic Epipedon (A2)	Hydric Soil I	ndicators:			Indicators for Problematic Hy	/dric Soils³:		
Black Histic (A3)	☐ Histosol (/	A1)	☐ Dark Surface (S7) (LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K, L	_, MLRA 149B)		
Hydrogen Sulfide (A4)	☐ Histic Epip	pedon (A2)	☐ Polyvalue Below	Surface (S8) (MLRA 147	, 148) Coast Prairie Redox (A16)	(LRR K, L, R)		
Stratified Layers (A5)	☐ Black Hist	tic (A3)	☐ Thin Dark Surface	e (S9) (LRR R, MLRA 14	9B) 5 cm Mucky Peat or Peat (S	63) (LRR K, L, R)		
Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thin Dark Surface (S9) (LRR, K, L) □ Thick Dark Surface (A12) □ Redox Dark Surface (F6) □ Iron-Manganese Masses (F12) (LRR, K, L) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (MLRA 149B) □ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Sandy Redox (S5) □ Red Parent Material (F21) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks) □ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks) □ Very Shallow Dark Surface (TF12) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks) □ Very Shallow Dark Surface (TF12) □ Very Shallow Dark Su			☐ Loamy Mucky Mir	neral (F1) (LRR K, L)	☐ Dark Surface (S7) (LRR K,	L)		
Thick Dark Surface (A12)	☐ Stratified	Layers (A5)	☐ Loamy Gleyed Ma	atrix (F2)	☐ Polyvalue Below Surface (S	☐ Polyvalue Below Surface (S8) (LRR, K, L)		
Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) □ Red Parent Material (F21) Stripped Matrix (S6) □ Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): □ Hydric Soil Present? Type:compacted soil □ Depth (inches):12 □ Yes ☑ No Remarks: Restrictive layer is likely due to proximity to transmission towers and manmade railroad ditch. Soil is assumed to be non-hydric due to	☐ Depleted	Below Dark Surface (A11)	☐ Depleted Matrix (F3)				
Sandy Gleyed Matrix (S4)	☐ Thick Dar	k Surface (A12)	☐ Redox Dark Surfa	ace (F6)	☐ Iron-Manganese Masses (F	☐ Iron-Manganese Masses (F12) (LRR, K, L)		
Sandy Redox (S5)	☐ Sandy Mu	icky Mineral (S1)	☐ Depleted Dark Su	ırface (F7)	☐ Piedmont Floodplain Soils (☐ Piedmont Floodplain Soils (F19) (MLRA 149B)		
Stripped Matrix (S6) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type:compacted soil Depth (inches):12 Yes ☑ No Remarks: Restrictive layer is likely due to proximity to transmission towers and manmade railroad ditch. Soil is assumed to be non-hydric due to	☐ Sandy Gle	eyed Matrix (S4)	☐ Redox Depressio	ns (F8)	☐ Mesic Spodic (TA6) (MLRA	☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type:compacted soil Depth (inches):12 Yes ⊠ No Remarks: Restrictive layer is likely due to proximity to transmission towers and manmade railroad ditch. Soil is assumed to be non-hydric due to	☐ Sandy Re	dox (S5)			☐ Red Parent Material (F21)			
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type:compacted soil Depth (inches):12 Yes No Remarks: Restrictive layer is likely due to proximity to transmission towers and manmade railroad ditch. Soil is assumed to be non-hydric due to	☐ Stripped N	Matrix (S6)			☐ Very Shallow Dark Surface	(TF12)		
Restrictive Layer (if observed): Type: _compacted soil _ Depth (inches): _12 Yes No Remarks: Restrictive layer is likely due to proximity to transmission towers and manmade railroad ditch. Soil is assumed to be non-hydric due to					☐ Other (Explain in Remarks)			
Type: compacted soil Depth (inches): 12 ☐ Yes ☒ No Remarks: Restrictive layer is likely due to proximity to transmission towers and manmade railroad ditch. Soil is assumed to be non-hydric due to	³ Indicators of	hydrophytic vegetation an	d wetland hydrology mus	st be present, unless distu	urbed or problematic			
Remarks: Restrictive layer is likely due to proximity to transmission towers and manmade railroad ditch. Soil is assumed to be non-hydric due to	Restrictive L	ayer (if observed):						
	Type: c	ompacted soil	Depth (inches):	12	_ ☐ Yes ☒ No			
					de railroad ditch. Soil is assumed to be n	on-hydric due to		

Project/Site: Lemoyne-Midway 138 kV Project	City/County: Wood County	Sampling Date:11/14/2016					
Applicant/Owner: ATSI	Stat	e: Ohio Sampling Point: SP-103					
Investigator(s): Gutman, Boatright	Section, Township, Ra	ange: T6N, R11E, S15					
Landform (hillslope, terrace, etc.) depression	Local relief (concave, convex, no	-					
, , ,	Lat: 41.47781 Long: -83.563						
Soil Map Unit Name: Hoytville clay loam, 0 to		NWI Classification: N/A					
	•						
Are climate/hydrologic conditions on the site typic	cal for this time of year? Yes No	(If no, explain in Remarks)					
Vegetation Soil	Hydrology ☐ Are "Normal Circumstan	ces" present? X Yes No					
Significantly Disturbed?		any answers in Remarks)					
Naturally Problematic?	(If needed, explain a	.,,					
SUMMARY OF FINDINGS – Attach site ma	p showing sampling point locations, trans	sects, important features, etc.					
Yes	s No Remarks: Sample plot located in F	PEM W-101.					
Hydrophytic Vegetation Present? □							
Hydric Soil Present?							
Wetland Hydrology Present?							
Is the Sampled Area within a Wetland?							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)					
Primary Indicators (minimum of one required; che	eck all that apply)	☐ Surface Soil Cracks (B6)					
Surface Water (A1)	☐ Water-Stained Leaves (B9)	☐ Drainage Patterns (B10)					
	☐ Aquatic Fauna (B13)	☐ Moss Trim Lines (B16)					
☐ Saturation (A3)	☐ Dry-Season Water Table (C2)						
	☐ Crayfish Burrows (C8)						
	☐ Hydrogen Sulfide Odor (C1)☐ Oxidized Rhizospheres on Living Roots (C3)						
	Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)					
_	Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1)					
	☐ Thin Muck Surface (C7)	Geomorphic Position (D2)					
	Other (Explain in Remarks)	Shallow Aquitard (D3)					
☐ Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	☐ Microtopographic Relief (D4)					
Grander vegetated Concave Surface (Bb)		☐ FAC-Neutral Test (D5)					
Field Observations: Yes No	Depth Describe Recorded Data (strea inspections, etc.), if available:	m gauge, monitoring well, aerial photos, previous					
Surface Water Present?	tinories).						
Water Table Present?							
Saturation Present?							
(includes capillary fringe)							
Wetland Hydrology Present? □							
Remarks: Wetland hydrology indicators D2 and [D5 are present.						

		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	(Plot size: <u>30'</u>)	% Cover	Species?	Status	Number of Dominant Species
1		%			that are OBL, FACW, or FAC: 1 (A)
2		%			Total Number of Dominant
3		<u></u> %			Species Across All Strata:1_(B)
4		<u></u> %			Percent of Dominant Species that are OBL, FACW, or FAC: 100 (A/B)
5		%			that are ODE, I AGW, OF I AG(A/D)
6.		%			Prevalence Index worksheet:
7					Total % Cover of: Multiply by:
		0 % =	= Total Cover		
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				OBL species% x 1 =0
-	,	0/.			FACW species% x 2 =0
1 2		<u>/0</u>			FAC species% x 3 =0
3.					FACU species% x 4 =0
4.		%			UPL species% x 5 =0
5.		%			Column Totals:0 % (A)0 (B)
6.		%			
7.		%			Prevalence Index = B/A =
		0 % =	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
Phalaris arundinacea	` _ '	100 %	Y	FΔCW	□ 2 - Dominance Test is >50%
2.					
3.					☐ 3 - Prevalence Index is ≤3.0 ¹
4.		%			4 - Morphological Adaptations ¹ (Provide
5.		%			supporting data in Remarks or on a separate sheet)
6.		%			☐ Problematic Hydrophytic Vegetation¹ (Explain)
7					¹ Indicators of hydric soil and wetland hydrology must be
8		%			present, unless disturbed or problematic
9		%			
10		%			Definitions of Vegetation Strata:
11.		%			Tree – Woody plants 3 in. (7.6 cm) or more in
12		%	-		diameter at breast height (DBH), regardless of height.
		100 % =	= Total Cover		Sapling/Shrub - Woody plants less than 3 in. DBH
Woody Vine Stratum	(Plot size: <u>30'</u>)				and greater than 3.28 ft (1 m) tall.
1		%			Herb - All herbaceous (non-woody) plants, regardless
2.					of size, and woody plants less than 3.28 ft tall.
3		%			Woody vine – All woody vines greater than 3.28 ft in
4		%			height.
		0 % =	= Total Cover		Hydrophytic Vegetation Present? ⊠ Yes ☐ No
Remarks (include photo num	hore hore or on a congrete el	nooth Photo	C 21 Domir	ance test is	a mot
Nemarks (include photo hum	bels liele of off a separate si	<i>1661)</i> . T 11010	7 C-2 1. DOMIII	iance test is	s met.

Sampling Point: SP-103

Profile Desc	ription: (Describe to th	e depth need	ed to docui	ment the	indicator or	confirm t	the absence of indicators.)		
Depth	Matrix		R	edox Fea			_		
(inches)			r (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks	
0-18	10YR 4/27		Y 5/1	20	D	M	clay		
	·		YR 5/6	2	C	M			
-	· ——— —		,				_		
	· 								
							_		
	·								
							_		
	· ———		-						
	· ———				· 				
1Tymps, C. Co	nacontration D Depletion	DM Doduce	ad Matrix, M	C. Maaka	d Cond Crain		21 continue DI Dava I	ining M Matrix	
	oncentration, D=Depletion	i, Rivi=Reduce	ed Matrix, M	S=IVIASKE	a Sand Grain	15	² Location: PL=Pore L		
Hydric Soil I							Indicators for Problematic F		
Histosol (•				, MLRA 149		☐ 2 cm Muck (A10) (LRR K ,		
☐ Histic Epi					(S8) (MLRA 1		☐ Coast Prairie Redox (A16)	,	
☐ Black Hist	, ,				RR R, MLRA	149B)	5 cm Mucky Peat or Peat		
Hydrogen			•) (LRR K, L)		☐ Dark Surface (S7) (LRR K	,	
☐ Stratified			y Gleyed M				☐ Polyvalue Below Surface (
-	Below Dark Surface (A11		eted Matrix (☐ Thin Dark Surface (S9) (LRR, K, L)		
	k Surface (A12)		x Dark Surfa		7 \		☐ Iron-Manganese Masses (F12) (LRR, K, L)		
	ucky Mineral (S1)		eted Dark Su		()		Piedmont Floodplain Soils (F19) (MLRA 149B)		
-	eyed Matrix (S4)	☐ Redo	x Depressio	ris (Fo)			☐ Mesic Spodic (TA6) (MLR.		
☐ Sandy Re☐ Stripped N							☐ Red Parent Material (F21)☐ Very Shallow Dark Surface		
☐ Stripped i	wattix (30)						☐ Other (Explain in Remarks		
3Indicators of	hydrophytic vegetation a	nd watland hy	drology mus	at he proc	cont unloce o	dicturbed o		')	
		na wellana ny	drology mus	st be pres	sent, uniess t	disturbed 0	1		
	.ayer (if observed):	Don	th (inches):				Hydric Soil Present?		
Туре:			th (inches):				⊠ Yes □ No		
Remarks: H	ydric soil indicator F3 is p	resent.							

Project/Site: Lemoyne-Midway 138 k	kV Project	City/County: Wood County	Sampling Date:11/14/2016		
Applicant/Owner: ATSI		Stat	e: Ohio Sampling Point: SP-104		
Investigator(s): Gutman, Boatright		Section, Township, R	ange: T6N, R11E, S15		
	hillslope	Local relief (concave, convex, n	one): convex Slope (%): 0		
Subregion (LRR or MLRA): L	Lat: 41.4778				
Soil Map Unit Name: Hoytville cla	ay loam, 0 to 1 percent slop	Des	NWI Classification: N/A		
Are climate/hydrologic conditions on t	the site typical for this time	e of year? X Yes No	 (If no, explain in Remarks)		
Vegetatio					
Significantly Disturbed?		Are "Normal Circumstar	nces" present? 🛛 Yes 🔲 No		
Naturally Problematic?		(If needed, explain a	any answers in Remarks)		
SUMMARY OF FINDINGS – Attac	ch site map showing s	sampling point locations, tran	sects, important features, etc.		
	Yes No	Remarks: Upland sample plot adj	<u>-</u>		
Hydrophytic Vegetation Present?		Nemarks. Opiana sample plot adj	decir to 1 Livi vv-101.		
Hydric Soil Present?					
Wetland Hydrology Present?					
Is the Sampled Area within a Wetla					
is the Sampled Area within a Wetla					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one r	equired; check all that app	<u>oly)</u>	☐ Surface Soil Cracks (B6)		
☐ Surface Water (A1)	☐ Water-Stair	ned Leaves (B9)	☐ Drainage Patterns (B10)		
☐ High Water Table (A2)	☐ Aquatic Fa	una (B13)	☐ Moss Trim Lines (B16)		
☐ Saturation (A3)	☐ Marl Depos	sits (B15)	☐ Dry-Season Water Table (C2)		
☐ Water Marks (B1)	☐ Hydrogen \$	Sulfide Odor (C1)	☐ Crayfish Burrows (C8)		
☐ Sediment Deposits (B2)	☐ Oxidized R	hizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)		
☐ Drift Deposits (B3)	☐ Presence of	of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)		
☐ Algal Mat or Crust (B4)	☐ Recent Iron	n Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)		
☐ Iron Deposits (B5)	☐ Thin Muck	Surface (C7)	☐ Shallow Aquitard (D3)		
☐ Inundation Visible on Aerial Image	ery (B7)	lain in Remarks)	☐ Microtopographic Relief (D4)		
☐ Sparsely Vegetated Concave Surf	ace (B8)		☐ FAC-Neutral Test (D5)		
	Depth	Describe Recorded Data (strea	m gauge, monitoring well, aerial photos, previous		
Field Observations: Ye	(IIIOIICO).	inspections, etc.), if available:			
Surface Water Present?					
Water Table Present?					
Saturation Present? [(includes capillary fringe)] 🛮 🔻				
Wetland Hydrology Present? □					
Remarks: No wetland hydrology indic	cators are present.				
	, , , , , , , , , , , , , , , , , , , ,				

Tree Stratum 1 2 3 4					Sampling Point: SP-104
1	(Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
2			<u> </u>		Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3		0/_			Total Number of Dominant
					Species Across All Strata: 1 (B)
••					Percent of Dominant Species
5.		<u> </u>			that are OBL, FACW, or FAC:0%_(A/B)
6.		%			
7.		%			Prevalence Index worksheet:
			= Total Cover		Total % Cover of: Multiply by:
					OBL species% x 1 =0
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				FACW species% x 2 =0
1		%			FAC species % x 3 =0
2		%			
3		%_			FACU species% x 4 =0
4		%			UPL species% x 5 =0
5		<u> </u>			Column Totals:0% (A)0 (B)
6		%			Prevalence Index = B/A =
7					
		0 %	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
Schedonorus arundinaceus		95 %	Y	FACU	2 - Dominance Test is >50%
2. Poa pratensis		5 %		FACU	
3.					☐ 3 - Prevalence Index is ≤3.0 ¹
4.		%			4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate
5		%			sheet)
6		%			☐ Problematic Hydrophytic Vegetation¹ (Explain)
7		%			¹ Indicators of hydric soil and wetland hydrology must be
8		%_			present, unless disturbed or problematic
9		%			Definitions of Vegetation Strate.
0.		<u> </u>			Definitions of Vegetation Strata:
11.		%			Tree – Woody plants 3 in. (7.6 cm) or more in
2		%_			diameter at breast height (DBH), regardless of height.
Woody Vine Stratum	(Plot size: <u>30'</u>)	100 %	= Total Cover		Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
		%			Herb - All herbaceous (non-woody) plants, regardless
1					of size, and woody plants less than 3.28 ft tall.
1 2					Woody vine – All woody vines greater than 3.28 ft in
1					height.
2		%			noight.

Depth Matrix Redox Features (Inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks 0-6 10YR 3/1 90 10YR 5/1 10 D M silt lidem	Profile Descr	ription: (Describe to	the dep	th needed to docu	ment the	indicator or	confirm t	he absence of indicators.)	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains Total Calculation: PL=Pore Lining, M=Matrix Thick calculation: PL=Pore Li	Depth	Matrix		R	ledox Fea	atures		_	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains Tocation: PL=Pcre Lining, M=Matrix Hydric Soil Indicators: Histosol (A1)	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: Histosol (A1)	0-6	10YR 3/1	90	10YR 5/1	10	D	M	silt loam	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1)								. ———	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1)									
Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1)								-	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1)									
Hydric Soil Indicators: Indicators for Problematic Hydric Soils3: Histosol (A1)								-	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: Histosol (A1)									
Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: Histosol (A1)								-	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: Histosol (A1)								-, <u> </u>	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: Histosol (A1)									
Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: Histosol (A1)									
Histosol (A1)	¹Type: C=Co	ncentration, D=Depleti	ion, RM=	Reduced Matrix, M	S=Maske	d Sand Grain	S	² Location: PL=Pore Linir	ng, M=Matrix
Histic Epipedon (A2)	Hydric Soil I	ndicators:						Indicators for Problematic Hyd	dric Soils³:
Histic Epipedon (A2)	☐ Histosol (A	\1)		Dark Surface (S7) (LRR R	, MLRA 149E	3)	☐ 2 cm Muck (A10) (LRR K, L ,	MLRA 149B)
□ Black Histic (A3) □ Thin Dark Surface (S9) (LRR R, MLRA 149B) □ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) □ Hydrogen Sulfide (A4) □ Loamy Mucky Mineral (F1) (LRR K, L) □ Dark Surface (S7) (LRR K, L) □ Stratified Layers (A5) □ Loamy Gleyed Matrix (F2) □ Polyvalue Below Surface (S8) (LRR, K, L) □ Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thin Dark Surface (S9) (LRR, K, L) □ Thick Dark Surface (A12) □ Redox Dark Surface (F6) □ Iron-Manganese Masses (F12) (LRR, K, L) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (MLRA 149B) □ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Sandy Redox (S5) □ Red Parent Material (F21) □ Stripped Matrix (S6) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type:compacted soil Depth (inches): _6 Yes ☑ No Remarks: Restrictive layer is likely due to close proximity to a road. Soil is assumed to be non-hydric due to the lack of hydrophytic vegetation and				Polyvalue Below	Surface (S8) (MLRA 1	47, 148)	☐ Coast Prairie Redox (A16) (L	RR K, L, R)
Hydrogen Sulfide (A4)	_			Thin Dark Surfac	e (S9) (Li	RR R, MLRA	149B)		
□ Stratified Layers (A5) □ Loamy Gleyed Matrix (F2) □ Polyvalue Below Surface (S8) (LRR, K, L) □ Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thin Dark Surface (S9) (LRR, K, L) □ Thick Dark Surface (A12) □ Redox Dark Surface (F6) □ Iron-Manganese Masses (F12) (LRR, K, L) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (MLRA 149B) □ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Stripped Matrix (S6) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type:compacted soil Depth (inches): _6 Hydric Soil Present? □ Yes ☑ No Remarks: Restrictive layer is likely due to close proximity to a road. Soil is assumed to be non-hydric due to the lack of hydrophytic vegetation and									
☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron-Manganese Masses (F12) (LRR, K, L) ☐ Sandy Mucky Mineral (S1) ☐ Depleted Dark Surface (F7) ☐ Piedmont Floodplain Soils (F19) (MLRA 149B) ☐ Sandy Gleyed Matrix (S4) ☐ Redox Depressions (F8) ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) ☐ Sandy Redox (S5) ☐ Red Parent Material (F21) ☐ Stripped Matrix (S6) ☐ Very Shallow Dark Surface (TF12) ☐ Other (Explain in Remarks) ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Hydric Soil Present? ☐ Yes ☑ No Remarks: Restrictive layer is likely due to close proximity to a road. Soil is assumed to be non-hydric due to the lack of hydrophytic vegetation and	☐ Stratified L	_ayers (A5)		Loamy Gleyed M	atrix (F2)			☐ Polyvalue Below Surface (S8	(LRR, K, L)
□ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (MLRA 149B) □ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 149B) □ Sandy Redox (S5) □ Red Parent Material (F21) □ Stripped Matrix (S6) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type:compacted soil □ Depth (inches): 6 □ Yes ☑ No Remarks: Restrictive layer is likely due to close proximity to a road. Soil is assumed to be non-hydric due to the lack of hydrophytic vegetation and	☐ Depleted I	Below Dark Surface (A	.11) [Depleted Matrix (F3)			☐ Thin Dark Surface (S9) (LRR	, K, L)
Sandy Gleyed Matrix (S4)	☐ Thick Dark	Surface (A12)		Redox Dark Surfa	ace (F6)			☐ Iron-Manganese Masses (F1	2) (LRR, K, L)
□ Sandy Redox (S5) □ Red Parent Material (F21) □ Stripped Matrix (S6) □ Very Shallow Dark Surface (TF12) □ Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type:compacted soil Depth (inches):6 Yes ☑ No Remarks: Restrictive layer is likely due to close proximity to a road. Soil is assumed to be non-hydric due to the lack of hydrophytic vegetation and	☐ Sandy Mu	cky Mineral (S1)		Depleted Dark Su	urface (F7	')		☐ Piedmont Floodplain Soils (F	19) (MLRA 149B)
Stripped Matrix (S6) Stripped Matrix (S6) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type:compacted soil Depth (inches): _6 Yes ☑ No Remarks: Restrictive layer is likely due to close proximity to a road. Soil is assumed to be non-hydric due to the lack of hydrophytic vegetation and	☐ Sandy Gle	eyed Matrix (S4)		Redox Depressio	ns (F8)			☐ Mesic Spodic (TA6) (MLRA 1	144A, 145, 149B)
Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Type:compacted soil Depth (inches):6 Yes No Remarks: Restrictive layer is likely due to close proximity to a road. Soil is assumed to be non-hydric due to the lack of hydrophytic vegetation and	☐ Sandy Re	dox (S5)						☐ Red Parent Material (F21)	
Restrictive Layer (if observed): Type:compacted soil Depth (inches):6 Yes ☑ No Remarks: Restrictive layer is likely due to close proximity to a road. Soil is assumed to be non-hydric due to the lack of hydrophytic vegetation and	☐ Stripped N	Matrix (S6)						☐ Very Shallow Dark Surface (ΓF12)
Restrictive Layer (if observed): Type:compacted soil Depth (inches):6 Yes ☑ No Remarks: Restrictive layer is likely due to close proximity to a road. Soil is assumed to be non-hydric due to the lack of hydrophytic vegetation and								☐ Other (Explain in Remarks)	
Type: compacted soil Depth (inches): 6 Yes No Remarks: Restrictive layer is likely due to close proximity to a road. Soil is assumed to be non-hydric due to the lack of hydrophytic vegetation and	³ Indicators of	hydrophytic vegetation	n and we	tland hydrology mus	st be pres	ent, unless d	isturbed or	r problematic	
Remarks: Restrictive layer is likely due to close proximity to a road. Soil is assumed to be non-hydric due to the lack of hydrophytic vegetation and	Restrictive L	ayer (if observed):						Hydric Soil Present?	
Remarks: Restrictive layer is likely due to close proximity to a road. Soil is assumed to be non-hydric due to the lack of hydrophytic vegetation and	Type: co	ompacted soil		Depth (inches):	6			☐ Yes ☒ No	
	Remarks: R wetland hydro	estrictive layer is likely ology indicators.	due to c	lose proximity to a r	oad. Soil	is assumed to	o be non-h	nydric due to the lack of hydrophyt	ic vegetation and

Project/Site: Lemoyne-Midway 138 kV Project	City/County: Lucas County	Sampling Date:11/15/2016		
Applicant/Owner: ATSI	State	: Ohio Sampling Point: SP-105		
Investigator(s): Gutman, Boatright	Section, Township, Ra	nge: T6N, R10E, S18		
Landform (hillslope, terrace, etc.) depression	Local relief (concave, convex, no	ne): concave Slope (%): 0		
Subregion (LRR or MLRA): L Lat:	41.47417 Long: -83.752	6 Datum: NAD83		
Soil Map Unit Name: Seward loamy fine sand, 2 to 0	6 percent slopes	NWI Classification: N/A		
Are climate/hydrologic conditions on the site typical for t		- If no, explain in Remarks)		
	ydrology	,		
Significantly Disturbed?	Are "Normal Circumstand	es" present? 🛛 Yes 🔲 No		
Naturally Problematic?	(If needed, explain a	ny answers in Remarks)		
SUMMARY OF FINDINGS – Attach site map sho	owing sampling point locations trans	ects important features etc		
·		<u>-</u>		
Yes		ent to PEM W-9.		
Hydrophytic Vegetation Present? ☐ Hydric Soil Present? ☐				
Wetland Hydrology Present?				
•				
Is the Sampled Area within a Wetland?				
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one required: check all	<u>l that apply)</u>	☐ Surface Soil Cracks (B6)		
☐ Surface Water (A1) ☐ Wa	ater-Stained Leaves (B9)	☐ Drainage Patterns (B10)		
☐ High Water Table (A2) ☐ Aqu	quatic Fauna (B13)	☐ Moss Trim Lines (B16)		
☐ Saturation (A3) ☐ Ma	arl Deposits (B15)	☐ Dry-Season Water Table (C2)		
☐ Water Marks (B1) ☐ Hyd	ydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)		
☐ Sediment Deposits (B2) ☐ Oxi	xidized Rhizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)		
☐ Drift Deposits (B3) ☐ Pre	esence of Reduced Iron (C4)	☐ Stunted or Stressed Plants (D1)		
☐ Algal Mat or Crust (B4) ☐ Red	ecent Iron Reduction in Tilled Soils (C6)	☐ Geomorphic Position (D2)		
☐ Iron Deposits (B5) ☐ Thi	nin Muck Surface (C7)	☐ Shallow Aquitard (D3)		
☐ Inundation Visible on Aerial Imagery (B7) ☐ Oth	her (Explain in Remarks)	☐ Microtopographic Relief (D4)		
☐ Sparsely Vegetated Concave Surface (B8)		☐ FAC-Neutral Test (D5)		
De	epth Describe Recorded Data (stream	n gauge, monitoring well, aerial photos, previous		
	ches): inspections, etc.), if available:	33., 3 ,		
Surface Water Present?				
Water Table Present?				
Saturation Present? (includes capillary fringe)	<u></u>			
Wetland Hydrology Present? □ ⊠				
Remarks: Wetland hydrology indicator D2 is present.				
Remarks. Welland Hydrology indicator D2 is present.				

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:		Species?	Status	Number of Dominant Species
1	%			that are OBL, FACW, or FAC: 0 (A)
2.				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Percent of Dominant Species that are OBL, FACW, or FAC: 0% (A/B)
5				that are OBL, I ACW, OF I AC.
6.				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0 %	= Total Cover	•	
Sapling/Shrub Stratum (Plot size:	<u>15'</u>)			OBL species% x 1 =0
1.	9/6			FACW species% x 2 =0
2.				FAC species% x 3 =0
3.	%			FACU species% x 4 =0
4.	%			UPL species% x 5 =0
5.	%			Column Totals: 0 % (A) 0 (B)
6.	%			
7				Prevalence Index = B/A =
		= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size	e: <u>5'</u>)			☐ 1 - Rapid Test for Hydrophytic Vegetation
Cirsium arvense	50 %	Y	FACU	☐ 2 - Dominance Test is >50%
2. Solidago altissima	10 %	N	FACU	
3. Xanthium strumarium	8 %	N	FAC	☐ 3 - Prevalence Index is ≤3.0 ¹
4. Rumex crispus	5 %	N	FAC	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate
5. Hordeum jubatum	5 %	N	FAC	sheet)
6. Phragmites australis	5 %	N	FACW	☐ Problematic Hydrophytic Vegetation¹ (Explain)
7. Juncus torreyi	2 %	N	FACW	¹ Indicators of hydric soil and wetland hydrology must be
8. Dipsacus laciniatus	2 %	N	FACU	present, unless disturbed or problematic
9	%			Definition of Manageria
10	%			Definitions of Vegetation Strata:
11.				Tree – Woody plants 3 in. (7.6 cm) or more in
12	%_			diameter at breast height (DBH), regardless of height.
	<u>87 %</u>	= Total Cover	•	Sapling/Shrub – Woody plants less than 3 in. DBH
Woody Vine Stratum (Plot size:	<u>30'</u>)			and greater than 3.28 ft (1 m) tall.
1	%			Herb – All herbaceous (non-woody) plants, regardless
2				of size, and woody plants less than 3.28 ft tall.
3	%			Woody vine – All woody vines greater than 3.28 ft in
4	<u></u> %			height.
	0 %	= Total Cover		Hydrophytic Vegetation Present? ☐ Yes ☒ No
Remarks (include photo numbers here or on a seg	narate sheet). Photo	C-23 Hydro	nhytic yeae	tation is not present
Tremarke (menado printe nambore nere er en a cep	ourate erroety. Triot	5 G 20. 11, u.c.	priyao rogo	idion to not procont.

Sampling Point: SP-105

Profile Desc	ription: (Describe	to the d	epth needed to docu	ment the	indicator or	confirm	the absence of indicators.)		
Depth	Matrix		_ <u> </u>	Redox Fea	atures		_		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-18	2.5Y 4/2	88	10YR 6/4	10	C	M	loamy clay		
			7.5YR 5/6	2	C	M			
18-24	2.5Y 4/1	70	7.5YR 5/6	15	C	M	loamy clay		
			10YR 5/4	5	C	M			
					·		_		
			_				_		
			_						
¹Type: C=Co	ncentration, D=Depl	etion, R	M=Reduced Matrix, M	S=Maske	ed Sand Grain	ıs	² Location: PL=Pore Lining	g, M=Matrix	
Hydric Soil I	ndicators:						Indicators for Problematic Hyd	ric Soils³:	
☐ Histosol (A	A1)		☐ Dark Surface (S7	7) (LRR R	, MLRA 149I	3)	☐ 2 cm Muck (A10) (LRR K, L, I	MLRA 149B)	
☐ Histic Epip	pedon (A2)		☐ Polyvalue Below	Surface ((S8) (MLRA 1	47, 148)	☐ Coast Prairie Redox (A16) (LI	RR K, L, R)	
☐ Black Hist	Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)) (LRR K, L, R)		
☐ Hydrogen	☐ Hydrogen Sulfide (A4) ☐ Loamy Mucky Mineral (F1) (LRR K, L) ☐ Dark Surface (S7) (LRR K, L)								
☐ Stratified Layers (A5) ☐ Loamy Gleyed Matrix (F2) ☐ Polyvalue Below Surface (S8) (LI						(LRR, K, L)			
☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3)						☐ Thin Dark Surface (S9) (LRR,	K, L)		
☐ Thick Darl	hick Dark Surface (A12) Redox Dark Surface (F6)					☐ Iron-Manganese Masses (F12	2) (LRR, K, L)		
☐ Sandy Mu	cky Mineral (S1)		☐ Depleted Dark Surface (F7)				☐ Piedmont Floodplain Soils (F1	9) (MLRA 149B)	
☐ Sandy Gle	☐ Sandy Gleyed Matrix (S4) ☐ Redox Depressions (F8)						☐ Mesic Spodic (TA6) (MLRA 1	44A, 145, 149B)	
☐ Sandy Re	dox (S5)						☐ Red Parent Material (F21)		
☐ Stripped N	Matrix (S6)						☐ Very Shallow Dark Surface (TF12)		
☐ Other (Explain in Remarks)									
³ Indicators of	hydrophytic vegetat	ion and	wetland hydrology mu	st be pres	sent, unless c	isturbed o	r problematic		
Restrictive L	ayer (if observed):						Hydric Soil Present?		
Type:			Depth (inches):				⊠ Yes □ No		
Remarks: H	ydric soil indicator F	3 is pres	ent.				l		

Project/Site: Lemoyne-Midway 138	3 kV Project	City/County:	Henry County	Sampling Date: <u>11/15/2016</u>		
Applicant/Owner: ATSI			State: Ohio	Sampling Point: SP-106		
Investigator(s): Gutman, Boatrig	ht	Section	on, Township, Range:	60N, R0080E, S14		
Landform (hillslope, terrace, etc.)	depression	Local relief (con	cave, convex, none): _conc	save Slope (%): 0		
Subregion (LRR or MLRA): _L	Lat: <u>41</u>	.47652	Long: <u>-83.9179</u>	Datum: NAD83		
Soil Map Unit Name: Granby lo	amy fine sand		NWI Clas	ssification: N/A		
Are climate/hydrologic conditions or	n the site typical for this	s time of year?	es 🗌 No (If no, explai	n in Remarks)		
Vegeta	ation Soil Hydro	ology				
Significantly Disturbed?		_	rmal Circumstances" present			
Naturally Problematic?] (1	f needed, explain any answers in	Remarks)		
SUMMARY OF FINDINGS – Att	ach site map showi	ing sampling point le	ocations, transects, imp	ortant features, etc.		
	Yes No	o Remarks: Sample	e plot located in PEM portion	of PEM/PSS W-102.		
Hydrophytic Vegetation Present?						
Hydric Soil Present?						
Wetland Hydrology Present?						
Is the Sampled Area within a Wet	tland?					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary	y Indicators (minimum of two required)		
Primary Indicators (minimum of one	e required; check all that	at apply)	☐ Surface	e Soil Cracks (B6)		
☐ Surface Water (A1)	☐ Water	r-Stained Leaves (B9)	☑ Drainaç	ge Patterns (B10)		
☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16)						
☐ Saturation (A3)	☐ Marl □	Deposits (B15)	☐ Dry-Sea	ason Water Table (C2)		
☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Crayfish Burrows (C8)						
☐ Sediment Deposits (B2)	⊠ Oxidiz	zed Rhizospheres on Liv	ing Roots (C3) Saturat	ion Visible on Aerial Imagery (C9)		
☐ Drift Deposits (B3)	☐ Prese	ence of Reduced Iron (C4	Stunted	or Stressed Plants (D1)		
☐ Algal Mat or Crust (B4)	☐ Recer	nt Iron Reduction in Tille	d Soils (C6) 🛛 Geomo	rphic Position (D2)		
☐ Iron Deposits (B5)	☐ Thin N	Muck Surface (C7)		v Aquitard (D3)		
☐ Inundation Visible on Aerial Imag	gery (B7)	(Explain in Remarks)		pographic Relief (D4)		
☐ Sparsely Vegetated Concave Su	urface (B8)			eutral Test (D5)		
	Depth	h Describe Reco	rded Data (stream gauge, m	onitoring well, aerial photos, previous		
	Yes No <u>(inches</u>		c.), if available:	, ,		
		<u></u> -				
Saturation Present? (includes capillary fringe)						
Remarks: Wetland hydrology indica	ators C3, B10, D2, and	D5 are present.				

			Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratu	<u>ım</u>	(Plot size: <u>30'</u>)	% Cover	Species?	Status	Number of Dominant Species
1			%			that are OBL, FACW, or FAC: 3 (A)
						Total Number of Dominant
			%			Species Across All Strata: 3 (B)
			%_			Percent of Dominant Species that are OBL, FACW, or FAC: 100 (A/B)
			%			that are ODE, 1 AOVV, OI 1 AO.
			·			Prevalence Index worksheet:
/						Total % Cover of: Multiply by:
			0 % =	= Total Cover		
Sapling/Sh	rub Stratum	(Plot size: <u>15'</u>)				
1. Samb	oucus nigra		10 %	Y	FACW	FACW species% x 2 =0
	<u> </u>					FAC species% x 3 =0
			%			FACU species% x 4 =0
			%			UPL species% x 5 =0
			%			Column Totals: 0 % (A) 0 (B)
6			%			Prevalence Index = B/A =
7			%			Prevalence index = B/A =
			10 % =	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Strat	<u>um</u>	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
1. Scirpe	us pendulus		50 %	Υ	OBL	
2. Junci	ıs effusus		40 %		OBL	☐ 3 - Prevalence Index is ≤3.0¹
3. Solida	ago altissima		40.0/		FACU	
4			%			4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate
5			%			sheet)
			%			☐ Problematic Hydrophytic Vegetation¹ (Explain)
						¹ Indicators of hydric soil and wetland hydrology must be
						present, unless disturbed or problematic
			<u> </u>			Definitions of Vegetation Strata:
10			- %			Zommiono di vogotanon di atai
			- 70 %			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
12.						
Woody Vin	o Stratum	(Plot size: <u>30'</u>)	100 %	= Total Cover		Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
		,				Have All barbassaus (non woods) plants, regardless
						Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
						Woody vine – All woody vines greater than 3.28 ft in
3. 1			- - % %			height.
٠			· ——	Total Cayor		
			=	= Total Cover		Hydrophytic Vegetation Present? ⊠ Yes ☐ No
Remarks	(include photo numbers h	ere or on a separate si	heet): Domii	nance test is	met.	

Sampling Point: SP-106

☐ Thin Dark Surfa	57) (LRR R, M v Surface (S8) ce (S9) (LRR	MLRA 149B) 3) (MLRA 147		Texture sandy loam sandy clay loam sandy clay loam sandy clay loam 2Location: PL=Pore Lining, Indicators for Problematic Hydric				
2.5Y 5/2 7.5YR 5/6 7.5YR 4/3 10YR 6/3 RM=Reduced Matrix, Mat	15 25 5 5 MS=Masked S 7) (LRR R, M v Surface (S8) ce (S9) (LRR	D C C C C Sand Grains	M PL PL M	sandy clay loam sandy clay loam sandy clay loam 2Location: PL=Pore Lining,				
7.5YR 5/6 5YR 4/3 10YR 6/3 10YR 6/3 RM=Reduced Matrix, Matrix Ma	15 25 5 5 MS=Masked S 7) (LRR R, M v Surface (S8) ce (S9) (LRR	C C C Sand Grains	PL PL M	sandy clay loam 2Location: PL=Pore Lining, Indicators for Problematic Hydric				
Dark Surface (S Polyvalue Below Thin Dark Surfa Loamy Mucky M	25 5 MS=Masked S 7) (LRR R, M v Surface (S8) ce (S9) (LRR	C C Sand Grains	PL M	² Location: PL=Pore Lining,				
NAMEREDUCED Matrix, Ma	5 MS=Masked S 7) (LRR R, M v Surface (S8) ce (S9) (LRR	C Sand Grains **ILRA 149B) **OHERA 147	M	² Location: PL=Pore Lining,				
RM=Reduced Matrix, M Dark Surface (S Polyvalue Below Thin Dark Surface Loamy Mucky M	MS=Masked S 7) (LRR R, M v Surface (S8) ce (S9) (LRR	Sand Grains **ILRA 149B) **S) (MLRA 147		Indicators for Problematic Hydric				
☐ Dark Surface (S☐ Polyvalue Below☐ Thin Dark Surfa☐ Loamy Mucky M	57) (LRR R, M v Surface (S8) ce (S9) (LRR	MLRA 149B) 3) (MLRA 147		Indicators for Problematic Hydric				
☐ Dark Surface (S☐ Polyvalue Below☐ Thin Dark Surfa☐ Loamy Mucky M	57) (LRR R, M v Surface (S8) ce (S9) (LRR	MLRA 149B) 3) (MLRA 147		Indicators for Problematic Hydric				
☐ Dark Surface (S☐ Polyvalue Below☐ Thin Dark Surfa☐ Loamy Mucky M	57) (LRR R, M v Surface (S8) ce (S9) (LRR	MLRA 149B) 3) (MLRA 147		Indicators for Problematic Hydric				
☐ Dark Surface (S☐ Polyvalue Below☐ Thin Dark Surfa☐ Loamy Mucky M	57) (LRR R, M v Surface (S8) ce (S9) (LRR	MLRA 149B) 3) (MLRA 147		Indicators for Problematic Hydric				
☐ Dark Surface (S☐ Polyvalue Below☐ Thin Dark Surfa☐ Loamy Mucky M	57) (LRR R, M v Surface (S8) ce (S9) (LRR	MLRA 149B) 3) (MLRA 147		Indicators for Problematic Hydric				
☐ Dark Surface (S☐ Polyvalue Below☐ Thin Dark Surfa☐ Loamy Mucky M	57) (LRR R, M v Surface (S8) ce (S9) (LRR	MLRA 149B) 3) (MLRA 147		Indicators for Problematic Hydric				
☐ Dark Surface (S☐ Polyvalue Below☐ Thin Dark Surfa☐ Loamy Mucky M	57) (LRR R, M v Surface (S8) ce (S9) (LRR	MLRA 149B) 3) (MLRA 147		Indicators for Problematic Hydric				
☐ Polyvalue Below ☐ Thin Dark Surfa ☐ Loamy Mucky N	v Surface (S8) ce (S9) (LRR	B) (MLRA 147		_	Soils ³ :			
☐ Polyvalue Below ☐ Thin Dark Surfa ☐ Loamy Mucky N	v Surface (S8) ce (S9) (LRR	B) (MLRA 147		☐ 2 cm Muck (A10) (LRR K, L, ML				
☐ Thin Dark Surfa	ce (S9) (LRR		4 40\		RA 149B)			
☐ Loamy Mucky M			☐ Histic Epipedon (A2) ☐ Polyvalue Below Surface (S8) (MLRA 147, 148) ☐ Coast Prairie Redox (A16) (LRR K, L, R)					
		☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L,						
☐ Loamy Gleyed N	☐ Loamy Mucky Mineral (F1) (LRR K, L) ☐ Dark Surface (S7) (LRR K, L)							
	Matrix (F2)		☐ Polyvalue Below Surface (S8) (L	.RR, K, L)				
☐ Depleted Matrix	(F3)			☐ Thin Dark Surface (S9) (LRR, K, L)				
Redox Dark Sur	face (F6)			☐ Iron-Manganese Masses (F12) (LRR, K, L)			
□ Depleted Dark S	Surface (F7)			☐ Piedmont Floodplain Soils (F19) (MLRA 149B)				
☐ Redox Depressi	ions (F8)			☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
				Red Parent Material (F21)				
				☐ Other (Explain in Remarks)				
d wetland hydrology mu	ust be present	nt, unless dist	urbed or	problematic				
				Hydric Soil Present?				
Depth (inches):	:		_					
		Depth (inches):	Depth (inches):	Depth (inches):	Uvery Shallow Dark Surface (TF1 ☐ Other (Explain in Remarks) d wetland hydrology must be present, unless disturbed or problematic Hydric Soil Present? ☐ Depth (inches): ☐ Yes ☐ No			

Project/Site: Lemoyne-Midway 138 kV Project	ct	City/County: Henry County	Sampling Date:11/15/2016
Applicant/Owner: ATSI		State	e: Ohio Sampling Point: SP-107
Investigator(s): Gutman, Boatright		Section, Township, Ra	nge: T0060N, R0080E, S14
Landform (hillslope, terrace, etc.) terrace		Local relief (concave, convex, no	ne): convex Slope (%): 0
Subregion (LRR or MLRA): L	Lat: 41.47649	Long: -83.917	5 Datum: NAD83
Soil Map Unit Name: Granby loamy fine sa	and		NWI Classification: N/A
Are climate/hydrologic conditions on the site ty	typical for this time of	f year? 🛛 Yes 🗌 No (- If no, explain in Remarks)
	Soil Hydrology		, , , , , , , , , , , , , , , , , , ,
<u> </u>		Are "Normal Circumstand	ces" present? 🛛 Yes 🔲 No
		(If needed, explain a	ny answers in Remarks)
SUMMARY OF FINDINGS – Attach site r	map showing sar	mpling point locations, trans	sects, important features, etc.
		emarks: Upland sample plot adja	<u>·</u>
Hydrophytic Vegetation Present?		emarks. Opiano sample piot auja	Cent to FFO/F33/FEW W-102.
Hydric Soil Present?			
Wetland Hydrology Present?			
Is the Sampled Area within a Wetland?			
is the Sampled Area within a wetland?			
HYDROLOGY			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one required:	check all that apply)	<u>)</u>	☐ Surface Soil Cracks (B6)
☐ Surface Water (A1)	☐ Water-Stained	d Leaves (B9)	☐ Drainage Patterns (B10)
☐ High Water Table (A2)	a (B13)	☐ Moss Trim Lines (B16)	
☐ Saturation (A3)	☐ Dry-Season Water Table (C2)		
☐ Water Marks (B1)	☐ Crayfish Burrows (C8)		
☐ Sediment Deposits (B2)	☐ Saturation Visible on Aerial Imagery (C9)		
☐ Drift Deposits (B3)	☐ Stunted or Stressed Plants (D1)		
☐ Algal Mat or Crust (B4)	☐ Recent Iron R	Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
☐ Iron Deposits (B5)	☐ Thin Muck Su	ırface (C7)	☐ Shallow Aquitard (D3)
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain	n in Remarks)	☐ Microtopographic Relief (D4)
☐ Sparsely Vegetated Concave Surface (B8))		☐ FAC-Neutral Test (D5)
	Depth	Describe Recorded Data (strear	n gauge, monitoring well, aerial photos, previous
Field Observations: Yes No	(IIIOIICO).	inspections, etc.), if available:	33., 3 ,
Surface Water Present?			
Water Table Present?			
Saturation Present?	₫		
Wetland Hydrology Present? □ ⊠	₫		
Remarks: No wetland hydrology indicators pro			
Remarks. No wettand flydrology mulcators pre	esent.		

EGETATION – Use scientific	c names of plants				Sampling Point: SP-107
		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	(Plot size: <u>30'</u>)	% Cover	Species?	Status	Number of Dominant Species
Quercus rubra			Y	FACU	that are OBL, FACW, or FAC:1_(A)
2. Prunus serotina			Y		Total Number of Dominant
			<u>N</u>		Species Across All Strata: 5 (B)
4		%_			Percent of Dominant Species that are OBL, FACW, or FAC: 20% (A/B)
5					
6					Prevalence Index worksheet:
7					Total % Cover of: Multiply by:
		90 % =	= Total Cove	•	
Sapling/Shrub Stratum	(Plot size: 15')				OBL species% x 1 =0
Elaeagnus umbellata	·	15 %	V	FACU	FACW species% x 2 =0
2 Cornus drummondii		10.0/		FAC	FAC species% x 3 =0
3.					FACU species% x 4 =0
4.		%			UPL species% x 5 =0
5.		%		-	Column Totals:0 % (A)0 (B)
6.		%			
7.		%			Prevalence Index = B/A =
		25 % :	= Total Cove		Hydrophytic Vegetation Indicators:
Herb Stratum	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
Solidago altissima		10 %	Y	FACU	☐ 2 - Dominance Test is >50%
2.					
3.		%			☐ 3 - Prevalence Index is ≤3.0 ¹
4.		%			4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate
5		%			sheet)
6		%_			☐ Problematic Hydrophytic Vegetation¹ (Explain)
7		%_			¹ Indicators of hydric soil and wetland hydrology must be
8		%_			present, unless disturbed or problematic
9					Definitions of Vegetation Strata:
10					Definitions of Vegetation Strata.
l1 l2.		- // %			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
			Total Cava		
Woody Vine Stratum	(Plot size: <u>30'</u>)	10 %	= Total Cove		Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
1		%			Herb – All herbaceous (non-woody) plants, regardless
2.		%			of size, and woody plants less than 3.28 ft tall.
3					Woody vine – All woody vines greater than 3.28 ft in
4		%			height.
		0 %	= Total Cove	-	Hydrophytic Vegetation Present? ☐ Yes ☒ No
Remarks (include photo numbers	s here or on a separate s	heet): Hydro	ophytic veget	ation is not p	present.

	ription: (Describe to	o the de		ment the		confirm t	the absence of indicators.)			
Depth (inches)	Color (moist)	%		%	Type ¹	Loc ²	– Texture	Domorko		
0-4	2.5Y 3/1	90	Color (moist) 2.5Y 6/1	10	D Type	M	loamy sand	Remarks		
4-10	10YR 3/2	85	10YR 6/1	10		M	loamy sand			
110	10111 0/2		7.5YR 4/3	5	C	M				
10-24	10YR 2/2	85	10YR 6/1	10	D	M	clay sand			
			10YR 5/6	5	С	М				
							_			
						-				
						-				
										
¹Type: C=Co	oncentration, D=Deple	etion, RI	M=Reduced Matrix, M	IS=Maske	d Sand Grair	าร	² Location: PL=Pore Linin	g, M=Matrix		
Hydric Soil I	ndicators:						Indicators for Problematic Hyd	ric Soils³:		
☐ Histosol (A1) ☐ Dark Surface (S7) (LRR R, MLRA 149B)					☐ 2 cm Muck (A10) (LRR K, L ,	MLRA 149B)				
☐ Histic Epip	pedon (A2)	2) Dolyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16) (LRR I						RR K, L, R)		
☐ Black Hist	tic (A3)	☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) (LRR K, L, R)		
☐ Hydrogen	Sulfide (A4)	☐ Loamy Mucky Mineral (F1) (LRR K, L) ☐ Dark Surface (S7) (LRR K, L))		
☐ Stratified I	☐ Stratified Layers (A5) ☐ Loamy Gleyed Matrix (F2)						☐ Polyvalue Below Surface (S8)	☐ Polyvalue Below Surface (S8) (LRR, K, L)		
☐ Depleted I	☐ Depleted Below Dark Surface (A11) ☐ Depleted Matrix (F3)					☐ Thin Dark Surface (S9) (LRR, K, L)				
☐ Thick Darl	k Surface (A12)		□ Redox Dark Surf	ace (F6)			☐ Iron-Manganese Masses (F12	2) (LRR, K, L)		
☐ Sandy Mu	ıcky Mineral (S1)	☐ Depleted Dark Surface (F7)				☐ Piedmont Floodplain Soils (F	19) (MLRA 149B)			
☐ Sandy Gle	eyed Matrix (S4)		☐ Redox Depression	ons (F8)			☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
☐ Sandy Re	dox (S5)						☐ Red Parent Material (F21)			
☐ Stripped N	Matrix (S6)						☐ Very Shallow Dark Surface (TF12)			
☐ Other (Explain in Remarks)										
³ Indicators of	hydrophytic vegetation	on and v	wetland hydrology mu	st be pres	sent, unless o	listurbed o	or problematic			
Restrictive L	.ayer (if observed):						Hydric Soil Present?			
Туре:	,		Depth (inches):				⊠ Yes □ No			
	valria a sil in disator FG	io nroo								
Remarks: ⊢	ydric soil indicator F6	is pres	ent.							

Project/Site: Lemoyne-Midway 138 kV P	roject roject	City/County: Henry County	Sampling Date:11/15/2016			
Applicant/Owner: ATSI		Stat	e: Ohio Sampling Point: SP-108			
Investigator(s): Gutman, Boatright		Section, Township, Ra	ange: T0060N, R0080E, S14			
Landform (hillslope, terrace, etc.) <u>depr</u>	ession	Local relief (concave, convex, no	one): concave Slope (%): 0			
Subregion (LRR or MLRA): L	Lat: 41.4757	73 Long: <u>-83.91</u> 7	75 Datum: <u>NAD83</u>			
Soil Map Unit Name: Ottokee fine sar	nd, 1 to 5 percent slope	es	NWI Classification: N/A			
Are climate/hydrologic conditions on the s	site typical for this time	e of year? ⊠ Yes □ No	(If no, explain in Remarks)			
Vegetation	Soil Hydrology					
Significantly Disturbed?		Are "Normal Circumstan	nces" present? 🛛 Yes 🔲 No any answers in Remarks)			
Naturally Problematic?		(п пеецец, ехріанта	any answers in Nemarks)			
SUMMARY OF FINDINGS – Attach s	ite map showing s	sampling point locations, trans	sects, important features, etc.			
	Yes No	Remarks: Sample plot located in t	he PSS portion of PFO/PSS/PEM W-102.			
Hydrophytic Vegetation Present?						
Hydric Soil Present?						
Wetland Hydrology Present?						
Is the Sampled Area within a Wetland?	· 🛮 🗆					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one requ	<u>ired; check all that app</u>	o <u>ly)</u>	☐ 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)		hizospheres on Living Roots (C3)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Drift Deposits (B3)	☐ Presence of	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 Aerial Imagery (37)	lain in Remarks)	☐ Microtopographic Relief (D4)			
☐ Sparsely Vegetated Concave Surface	(B8)		□ FAC-Neutral Test (D5)			
Field Observations: Yes	Depth No (inches):		m gauge, monitoring well, aerial photos, previous			
Surface Water Present?	<u>(inches).</u>	inspections, etc.), if available:				
Water Table Present?	<u> </u>					
Saturation Present?						
(includes capillary fringe)						
Wetland Hydrology Present?						
Remarks: Wetland hydrology indicators I	02 and D5 are present	i.				

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30'</u>)	% Cover	Species?	Status	Number of Dominant Species
1.	%			that are OBL, FACW, or FAC:4_(A)
2				Total Number of Dominant
3	%			Species Across All Strata: 4 (B)
4	%_			Percent of Dominant Species that are OBL, FACW, or FAC: 100 (A/B)
5	%			that are OBL, I ACW, OF I AC(A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	0 % =	= Total Cover	•	
Sapling/Shrub Stratum (Plot size: 15')				OBL species% x 1 =0
Salix amygdaloides	80 %	Y	FACW	FACW species% x 2 =0
Cornus obliqua	20 %		FACW	FAC species% x 3 =0
Quercus palustris	5 %		FACW	FACU species% x 4 =0
4.				UPL species% x 5 =0
5.				Column Totals: 0 % (A) 0 (B)
6.	%			
7	%			Prevalence Index = B/A =
	105 % =	= Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation
Carex molesta	5 %	Y	FAC	☐ 2 - Dominance Test is >50%
Agrimonia parviflora	5 %			
3.				☐ 3 - Prevalence Index is ≤3.0 ¹
4.	%			4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate
5.	%			sheet)
6	%			☐ Problematic Hydrophytic Vegetation¹ (Explain)
7				¹ Indicators of hydric soil and wetland hydrology must be
8	%			present, unless disturbed or problematic
9	%			Definition of Manageria
10	%			Definitions of Vegetation Strata:
11.				Tree – Woody plants 3 in. (7.6 cm) or more in
12	%			diameter at breast height (DBH), regardless of height.
	10 % =	= Total Cover	•	Sapling/Shrub – Woody plants less than 3 in. DBH
Woody Vine Stratum (Plot size: <u>30'</u>)				and greater than 3.28 ft (1 m) tall.
1.	%			Herb – All herbaceous (non-woody) plants, regardless
2.				of size, and woody plants less than 3.28 ft tall.
3	%			Woody vine - All woody vines greater than 3.28 ft in
4	%			height.
	0 %	= Total Cover		Hydrophytic Vegetation Present? ☐ Yes ☐ No
Demante (include abote aumbere bere ev en e concrete e	haath Dami	nonno toot in	mat	7 1 7 3 = =
Remarks (include photo numbers here or on a separate si	neet). Domi	nance test is	met.	

Sampling Point: SP-108

	ription: (Describe t	o the de		ment the		confirm t	he absence of indicators.)		
Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	- Texture	Remarks	
0-6	10YR 3/1	65	2.5Y 6/1	25	D	M	clay sand	Remarks	
	1011(0/1		7.5YR 5/6	10	C	M	oldy Salid		
6-18	2.5Y 3/1	10	2.5Y 6/3	5		M	clay sand		
			5YR 4/3	5	С	М			
18-24	5Y 5/1		10YR 5/3	15	С	М	clay sand		
			7.5YR 5/4	5	С	М			
							.		
							<u> </u>		
¹Type: C=Co	ncentration, D=Deple	etion, RM	=Reduced Matrix, M	IS=Maske	d Sand Grair	S	² Location: PL=Pore Linin	g, M=Matrix	
Hydric Soil I	ndicators:						Indicators for Problematic Hyd	ric Soils³:	
☐ Histosol (A	\1)		☐ Dark Surface (S	7) (LRR R	, MLRA 149E	3)	☐ 2 cm Muck (A10) (LRR K, L, I	MLRA 149B)	
☐ Histic Epip	Epipedon (A2) Dolyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16) (LRR K, L, R)						RR K, L, R)		
☐ Black Histi	ic (A3)		☐ Thin Dark Surface (S9) (LRR R, MLRA 149B) ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)						
☐ Hydrogen	Sulfide (A4)		☐ Loamy Mucky Mineral (F1) (LRR K, L) ☐ Dark Surface (S7) (LRR K, L)						
☐ Stratified L	ayers (A5)	☐ Loamy Gleyed Matrix (F2) ☐ Poly					☐ Polyvalue Below Surface (S8)	Polyvalue Below Surface (S8) (LRR, K, L)	
☐ Depleted E	Below Dark Surface (ace (A11) Depleted Matrix (F3)				☐ Thin Dark Surface (S9) (LRR, K, L)			
☐ Thick Dark	Surface (A12)		☐ Redox Dark Surface (F6)				☐ Iron-Manganese Masses (F12) (LRR, K, L)		
☐ Sandy Mu	cky Mineral (S1)		☐ Depleted Dark Surface (F7)				☐ Piedmont Floodplain Soils (F19) (MLRA 149B)		
☐ Sandy Gle	eyed Matrix (S4)		☐ Redox Depression	ons (F8)			☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
☐ Sandy Red	dox (S5)						☐ Red Parent Material (F21)		
☐ Stripped M	Matrix (S6)						☐ Very Shallow Dark Surface (TF12)		
☐ Other (Explain in Remarks)									
³ Indicators of	hydrophytic vegetati	on and w	etland hydrology mu	st be pres	ent, unless d	isturbed o	r problematic		
Restrictive L	ayer (if observed):						Hydric Soil Present?		
Туре:			Depth (inches):				⊠ Yes □ No		
Remarks: Hy	ydric soil indicator F6	is prese	nt.						

Project/Site: Lemoyne-Midway 138 kV Project	City/County: Henry County Sampling Date: 11/15/2016				
Applicant/Owner: ATSI	State: Ohio Sampling Point: SP-109				
Investigator(s): Gutman, Boatright	Section, Township, Range: T0060N, R0080E, S14				
Landform (hillslope, terrace, etc.)depression	Local relief (concave, convex, none): concave Slope (%): 0				
Subregion (LRR or MLRA): L Lat: 41.4	17482 Long: -83.9194 Datum: NAD83				
Soil Map Unit Name: Granby loamy fine sand	NW I Classification: N/A				
Are climate/hydrologic conditions on the site typical for this ti	<u> </u>				
, ,					
Vegetation Soil Hydrolo Significantly Disturbed? □ □ □	Are "Normal Circumstances" present? 🛛 Yes 🔲 No				
Naturally Problematic?	(If needed, explain any answers in Remarks)				
SUMMARY OF FINDINGS – Attach site man showin	ng sampling point locations, transects, important features, etc.				
Yes No	Remarks: Sample plot located in the PFO portion of PFO/PSS/PEM W-102.				
Hydrophytic Vegetation Present?	Remarks. Sample plot located in the FFO portion of FFO/F35/FEIV W-102.				
Hydric Soil Present?					
Wetland Hydrology Present?					
Is the Sampled Area within a Wetland?					
is the Sampled Area within a Wetland?					
HYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one required; check all that a	apply) ☐ Surface Soil Cracks (B6)				
☐ Surface Water (A1) ☐ Water-S	Stained Leaves (B9)				
☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16)					
☐ Saturation (A3) ☐ Marl De	eposits (B15) Dry-Season Water Table (C2)				
☐ Water Marks (B1) ☐ Hydroge	en Sulfide Odor (C1)				
☐ Sediment Deposits (B2) ☐ Oxidized	d Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)				
☐ Drift Deposits (B3) ☐ Presence	ce of Reduced Iron (C4)				
☐ Algal Mat or Crust (B4) ☐ Recent	Iron Reduction in Tilled Soils (C6) ☐ Geomorphic Position (D2)				
☐ Iron Deposits (B5) ☐ Thin Mu	uck Surface (C7) Shallow Aquitard (D3)				
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (E	Explain in Remarks)				
☐ Sparsely Vegetated Concave Surface (B8)	☐ FAC-Neutral Test (D5)				
Depth	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous				
Field Observations: Yes No (inches):					
Surface Water Present?					
Water Table Present?					
Saturation Present?	_				
(includes capillary fringe) Wetland Hydrology Present? □					
<u> </u>					
Remarks: Wetland hydrology indicators B8, D2 and D5 are	present.				

		Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tre	e Stratum	(Plot size: <u>30'</u>)	% Cover	Species?	Status	Number of Dominant Species
1.	Acer saccharinum			Y	FACW	that are OBL, FACW, or FAC: 4 (A)
	Populus deltoides		20 %		FAC	Total Number of Dominant Species Across All Strata:5_(B)
			%			
			<u>%</u>			Percent of Dominant Species that are OBL, FACW, or FAC: 80% (A/B)
			%			
			%			Prevalence Index worksheet:
7.						Total % Cover of: Multiply by:
			60 % =	= Total Cover	•	
San	oling/Shrub Stratum	(Plot size: <u>15'</u>)				OBL species% x 1 =0
	Communication and dis	,	40.9/	V	EAC	FACW species% x 2 =0
	Cornus di unimondii			Y		FAC species% x 3 =0
						FACU species% x 4 =0
			——————————————————————————————————————			UPL species% x 5 =0
			<u> </u>			
			%			Column Totals:0% (A)0 (B)
			%			Prevalence Index = B/A =
			40 % =	= Total Cover		Hydrophytic Vegetation Indicators:
Her	b Stratum	(Plot size: 5')				☐ 1 - Rapid Test for Hydrophytic Vegetation
		<u></u> /	10.0/	V	EAC	
	Cornus drummondii Rubus occidentalis		5 %	<u>Y</u> Y	FAC UPL	□ 2 - Dominance Test is >50%
	0 1:1 1::		0.07		FACU	☐ 3 - Prevalence Index is ≤3.0¹
	Condago anissima					☐ 4 - Morphological Adaptations¹ (Provide
						supporting data in Remarks or on a separate sheet)
			%			
						☐ Problematic Hydrophytic Vegetation¹ (Explain)
						Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
						F
			%			Definitions of Vegetation Strata:
11.			%			Tree – Woody plants 3 in. (7.6 cm) or more in
			%			diameter at breast height (DBH), regardless of height.
				= Total Cover		Sapling/Shrub – Woody plants less than 3 in. DBH
Wo	ody Vine Stratum	(Plot size: <u>30'</u>)				and greater than 3.28 ft (1 m) tall.
1.			%			Herb – All herbaceous (non-woody) plants, regardless
						of size, and woody plants less than 3.28 ft tall.
			%			Woody vine - All woody vines greater than 3.28 ft in
4.			%			height.
			0 % =	= Total Cover		Hydrophytic Vegetation Present? ⊠ Yes ☐ No
Rei	marks (include photo numbers h	ere or on a separate s	heet): Domi	nance test is	met.	.,,,
		,				

Sampling Point: SP-109

0-12 2 12-24 2	or (moist) % .5Y 3/1 75 .5Y 3/1 60	Color (moist) 2.5Y 6/1 2.5Y 6/1 5Y 7/2	% Type¹ 25 D 30 D 10 D	M M M	Texture Resident Sandy clay loam Sandy clay loam	emarks	
12-24 2		2.5Y 6/1	30 D	М			
	5Y 3/1 60				sandy clay loam		
¹Type: C=Concentra		5Y //2		M			
¹Type: C=Concentra							
¹Type: C=Concentra							
¹Type: C=Concentra							
¹Type: C=Concentra							
¹Type: C=Concentra				_			
¹Type: C=Concentra							
¹ Type: C=Concentra					- 		
Type: C=Concentra							
¹ Type: C=Concentra				_			
	tion, D=Depletion, F	RM=Reduced Matrix, M	S=Masked Sand Gr	ains	² Location: PL=Pore Lining, M=M	atrix	
Hydric Soil Indicate	ors:				Indicators for Problematic Hydric Soil	s ³ :	
☐ Histosol (A1)		☐ Dark Surface (S7	') (LRR R, MLRA 14	9B)	☐ 2 cm Muck (A10) (LRR K, L, MLRA	149B)	
☐ Histic Epipedon (A2)	☐ Polyvalue Below	Surface (S8) (MLRA	147, 148)	☐ Coast Prairie Redox (A16) (LRR K, L, R)		
☐ Black Histic (A3)		☐ Thin Dark Surfac	e (S9) (LRR R, MLF	A 149B)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
☐ Hydrogen Sulfide	(A4)	☐ Loamy Mucky Mi	neral (F1) (LRR K, I	_)	☐ Dark Surface (S7) (LRR K, L)		
☐ Stratified Layers	(A5)	☐ Loamy Gleyed M	atrix (F2)		☐ Polyvalue Below Surface (S8) (LRR,	K, L)	
☐ Depleted Below [Oark Surface (A11)	☐ Depleted Matrix ((F3)		☐ Thin Dark Surface (S9) (LRR, K, L)		
☐ Thick Dark Surface	ce (A12)	☐ Redox Dark Surfa	ace (F6)		☐ Iron-Manganese Masses (F12) (LRR	, K, L)	
☐ Sandy Mucky Mir	neral (S1)	□ Depleted Dark Su	urface (F7)		☐ Piedmont Floodplain Soils (F19) (ML	RA 149B)	
☐ Sandy Gleyed Ma		☐ Redox Depression	ons (F8)		☐ Mesic Spodic (TA6) (MLRA 144A, 14	I5, 149B)	
☐ Sandy Redox (S5	5)				☐ Red Parent Material (F21)		
☐ Stripped Matrix (\$	86)				☐ Very Shallow Dark Surface (TF12)		
					☐ Other (Explain in Remarks)		
³ Indicators of hydrop	hytic vegetation and	wetland hydrology mus	st be present, unless	disturbed o	r problematic		
Restrictive Layer (in	observed):				Hydric Soil Present?		
Туре:		_ Depth (inches):			⊠ Yes □ No		

Project/Site: Lemoyne-Midway 1	38 kV Project		City/County:	Henry County		Sampling Date:				
Applicant/Owner: ATSI				State	: Ohio	Sampling Point: SP-110				
Investigator(s): Gutman, Boati	ight		Section	on, Township, Ra	nge: T60N,	R80E, S14				
Landform (hillslope, terrace, etc.)	terrace		Local relief (con	cave, convex, no	ne): convex	Slope (%): 0				
Subregion (LRR or MLRA): _L		Lat: 41.4748	85	Long:83.919	6	Datum: NAD83				
Soil Map Unit Name: Granby	loamy fine san	ıd		•	NWI Classif	ication: N/A				
Are climate/hydrologic conditions	on the site typ	ical for this time	e of year?	es 🗌 No (/	- If no, explain ir	n Remarks)				
,	etation Soil		, –		· ·	,				
			Are "No	rmal Circumstand	es" present?	⊠ Yes □ No				
Naturally Problematic?			(II	f needed, explain ar	ny answers in Re	emarks)				
SUMMARY OF FINDINGS – A	ttach site m	ap showing s	sampling point lo	ocations, trans	ects, impor	tant features, etc.				
	Y	es No	Remarks: Upland	sample plot adjad	cent to PFO/P	SS/PEM W-102.				
Hydrophytic Vegetation Present?										
Hydric Soil Present?										
Wetland Hydrology Present?										
Is the Sampled Area within a W	etland?									
HYDROLOGY		•								
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)										
Primary Indicators (minimum of c	ne required; cl	neck all that apr	o <u>ly)</u>		☐ Surface S	oil Cracks (B6)				
☐ Surface Water (A1)		☐ Water-Stai	ned Leaves (B9)		☐ Drainage Patterns (B10)					
☐ High Water Table (A2)			☐ Moss Trim							
☐ Saturation (A3)				on Water Table (C2)						
☐ Water Marks (B1)		☐ Marl Depos	Sulfide Odor (C1)		☐ Crayfish B					
☐ Sediment Deposits (B2)			thizospheres on Livi	ng Roots (C3)		Visible on Aerial Imagery (C9)				
☐ Drift Deposits (B3)			of Reduced Iron (C4	3,1,						
☐ Algal Mat or Crust (B4)				Reduction in Tilled Soils (C6) Geomorphic Position (D2)						
☐ Iron Deposits (B5)		☐ Thin Muck		• •	☐ Shallow Aquitard (D3)					
☐ Inundation Visible on Aerial In	nagery (B7)	☐ Other (Exp	lain in Remarks)			graphic Relief (D4)				
☐ Sparsely Vegetated Concave	Surface (B8)				☐ FAC-Neut	• • • • • • • • • • • • • • • • • • • •				
		Depth	Describe Reco	rded Data (strean	n gauge, moni	toring well, aerial photos, previous				
Field Observations:	Yes No	(inches):	inspections, etc		3 3	3 - , , ,				
Surface Water Present?										
Water Table Present?										
Saturation Present? (includes capillary fringe)										
Wetland Hydrology Present?										
Remarks: No wetland hydrology	indicators pres	ent.	I							
, 0,	·									

EG	SETATION - Use scientific	names of plants				Sampling Point: SP-110		
Tre	e Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
		(1 101 01 <u>01</u>)				Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)		
	Populus deltoides Prunus serotina			<u>Y</u> Y		Total Number of Dominant		
						Species Across All Strata: 5 (B)		
			0/_			Percent of Dominant Species		
						that are OBL, FACW, or FAC: 40% (A/B)		
			- / %					
			%			Prevalence Index worksheet:		
				= Total Cove		Total % Cover of: Multiply by:		
Sar	oling/Shrub Stratum	(Plot size: 15')				OBL species% x 1 =0		
	-	(1 lot size. <u>15</u>)				FACW species% x 2 =0		
				Y		FAC species % x 3 = 0		
	Rhamnus cathartica		5 %		<u>FAC</u>	FACU species % x 4 = 0		
			90			UPL species% x 5 =0		
						Column Totals:0 % (A)0 (B)		
			- // %			Prevalence Index = B/A =		
				Total Cove		Hydrophytic Vegetation Indicators:		
Herb Stratum (Plot size: 5')						☐ 1 - Rapid Test for Hydrophytic Vegetation		
			F 0/	V	FACIL			
	Sanicula canadensis Carex sp.*	5 % 5 %	<u>Y</u> Y	FACU FAC*	☐ 2 - Dominance Test is >50%			
	Rubus occidentalis		2 %		UPL	☐ 3 - Prevalence Index is ≤3.0¹		
	Symphyotrichum lanceleolatui	n	2 %		FAC	☐ 4 - Morphological Adaptations¹ (Provide		
	- Сутртуонопат напослован					supporting data in Remarks or on a separate sheet)		
			<u> </u>					
			%			☐ Problematic Hydrophytic Vegetation¹ (Explain)		
			%			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic		
			%					
			%			Definitions of Vegetation Strata:		
			%			Tree – Woody plants 3 in. (7.6 cm) or more in		
12.			%			diameter at breast height (DBH), regardless of height.		
			14 % _=	= Total Cove	r	Sapling/Shrub – Woody plants less than 3 in. DBH		
<u>Wc</u>	ody Vine Stratum	(Plot size: <u>30'</u>)				and greater than 3.28 ft (1 m) tall.		
1.			%			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
2.			%			of size, and woody plants less than 3.20 it tall.		
3.						Woody vine – All woody vines greater than 3.28 ft in		
4.			%_			height.		
			0 % =	= Total Cove	r	Hydrophytic Vegetation Present? ☐ Yes ☒ No		
Re	marks (include photo numbers l	here or on a separate s	heet): Hydro	phytic veget	ation is not r	present.		
	, ,	,	, ,	. , .		o it was given a FAC designation.		

Profile Desc	cription: (Describe to Matrix	the de		<i>iment the</i> Redox Fe		r confirm t	the absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	– Texture R	Remarks
0-3	10YR 3/1	100					sandy loam	
3-24	10YR 4/4	95	7.5YR 5/6	5	С	М	sand	
			<u> </u>					
							- 	
-			-				_ 	
				-				
			-					
¹Type: C=Co	oncentration, D=Deplet	tion, RN	/I=Reduced Matrix, №	1S=Maske	ed Sand Grain	ns	² Location: PL=Pore Lining, M=I	Matrix
Hydric Soil	Indicators:						Indicators for Problematic Hydric So	ils³:
☐ Histosol ((A1)		☐ Dark Surface (S	7) (LRR R	R, MLRA 149	B)	2 cm Muck (A10) (LRR K, L, MLRA	149B)
☐ Histic Epi	pedon (A2)		☐ Polyvalue Below	Surface	(S8) (MLRA	147, 148)	☐ Coast Prairie Redox (A16) (LRR K,	L, R)
☐ Black His	tic (A3)		☐ Thin Dark Surfac	☐ 5 cm Mucky Peat or Peat (S3) (LRR	≀ K, L, R)			
☐ Hydrogen	n Sulfide (A4)		☐ Loamy Mucky M	ineral (F1) (LRR K, L)		☐ Dark Surface (S7) (LRR K, L)	
☐ Stratified	Layers (A5)		☐ Loamy Gleyed M	/latrix (F2))		☐ Polyvalue Below Surface (S8) (LRR	k, K, L)
☐ Depleted	Below Dark Surface (A	\11)	☐ Depleted Matrix	(F3)			☐ Thin Dark Surface (S9) (LRR, K, L)	
☐ Thick Dar	rk Surface (A12)		☐ Redox Dark Surf	face (F6)			☐ Iron-Manganese Masses (F12) (LR	R, K, L)
☐ Sandy Mucky Mineral (S1)			☐ Depleted Dark S	urface (F	7)		☐ Piedmont Floodplain Soils (F19) (M	LRA 149B)
☐ Sandy GI	eyed Matrix (S4)		☐ Redox Depression	ons (F8)		☐ Mesic Spodic (TA6) (MLRA 144A, 1	45, 149B)	
☐ Sandy Re	edox (S5)						☐ Red Parent Material (F21)	
☐ Stripped I	Matrix (S6)						☐ Very Shallow Dark Surface (TF12)	
							☐ Other (Explain in Remarks)	
³ Indicators of	f hydrophytic vegetation	n and w	vetland hydrology mu	st be pres	sent, unless o	disturbed o	or problematic	
	Layer (if observed):						Hydric Soil Present?	
Туре:			Depth (inches):				☐ Yes ☒ No	
Remarks: -	Hydric soil is not presen	nt.						

Project/Site: Lemoyne-Midway	138 kV Project		City/County:	Lucas County		Sampling Date: <u>11/16/2016</u>				
Applicant/Owner: ATSI				State	e: Ohio	Sampling Point: SP-111				
Investigator(s): Gutman, Boat	right		Section	on, Township, Ra	inge: <u>T6N, R9</u>	9E, S18				
Landform (hillslope, terrace, etc.)) <u>depressior</u>	າ	Local relief (con	cave, convex, no	ne): concave	Slope (%): 2				
Subregion (LRR or MLRA): L		Lat: 41.476	43	Long:83.868	8	Datum: NAD83				
Soil Map Unit Name: Granby	loamy fine sar	nd			_ NW1 Classific	cation: N/A				
Are climate/hydrologic conditions	on the site typ	oical for this time	e of year?	es 🗆 No (If no, explain in	Remarks)				
Veg	etation Soi	il Hydrology								
Significantly Disturbed?		, D ,		rmal Circumstand	·					
Naturally Problematic?			(II	f needed, explain ai	ny answers in Ren	marks)				
SUMMARY OF FINDINGS - A	Attach site m	ap showing s	sampling point lo	ocations, trans	sects, importa	ant features, etc.				
	Y	'es No	Remarks: Sample	plot located in P	EM portion of P	EM/PSS W-103.				
Hydrophytic Vegetation Present?	? [
Hydric Soil Present?										
Wetland Hydrology Present?	[
Is the Sampled Area within a V	Vetland?									
HYDROLOGY										
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)										
Primary Indicators (minimum of o	one required; c	heck all that app	o <u>ly)</u>		☐ Surface Soil Cracks (B6)					
☐ Surface Water (A1)		☐ Water-Stai	ned Leaves (B9)		☐ Drainage Patterns (B10)					
☐ High Water Table (A2)			☐ Moss Trim							
Saturation (A3)		☐ Aquatic Fa☐ Marl Depos				n Water Table (C2)				
☐ Water Marks (B1)			☐ Crayfish Bu							
☐ Sediment Deposits (B2)			Sulfide Odor (C1) Rhizospheres on Livi	ing Roots (C3)		Visible on Aerial Imagery (C9)				
☐ Drift Deposits (B3)			of Reduced Iron (C4			Stressed Plants (D1)				
☐ Algal Mat or Crust (B4)				eduction in Tilled Soils (C6) Geomorphic Position (D2)						
☐ Iron Deposits (B5)		☐ Thin Muck		,	☐ Shallow Aquitard (D3)					
☐ Inundation Visible on Aerial Ir	nagery (B7)		plain in Remarks)			raphic Relief (D4)				
☐ Sparsely Vegetated Concave	0 , , ,	(,		☐ FAC-Neutra	• • • • • • • • • • • • • • • • • • • •				
		- David	1			` '				
Field Observations:	Yes No	Depth (inches):	Describe Reco		n gauge, monito	oring well, aerial photos, previous				
Surface Water Present?				o.,, avaao.o.						
Water Table Present?		12								
Saturation Present?		10								
(includes capillary fringe)										
Wetland Hydrology Present?										
Remarks: Wetland hydrology inc	dicators A2, A3	, C3, B10, D2, a	and D5 are present.							

/EGETATION - Use scientific	names of plants	Sampling Point: SP-111						
Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
	,				Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)			
1.					Total Number of Dominant			
2		- %			Species Across All Strata: 1 (B)			
3 4					Percent of Dominant Species			
5		- / %			that are OBL, FACW, or FAC: 100 (A/B)			
6.		%						
7.		%			Prevalence Index worksheet:			
		0 % =	= Total Cover		Total % Cover of: Multiply by:			
					OBL species % x 1 =0			
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				FACW species % x 2 =0			
1		%			FAC species % x 3 =0			
2		%						
3		%			FACU species% x 4 =0			
4.				-	UPL species% x 5 =0			
5.					Column Totals:0 % (A)0 (B)			
6		- %			Prevalence Index = B/A =			
7			Total Cayo					
			= Total Cover		Hydrophytic Vegetation Indicators:			
<u>Herb Stratum</u>	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation			
Schoenoplectus fluviatilis		60 %	Y	OBL				
2. Phalaris arundinacea		10 %	N	FACW	☐ 3 - Prevalence Index is ≤3.0¹			
3. Urtica dioica		5 %						
4		%			4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate			
5		%_			sheet)			
6.		%			☐ Problematic Hydrophytic Vegetation¹ (Explain)			
7					¹ Indicators of hydric soil and wetland hydrology must be			
8.					present, unless disturbed or problematic			
9 10		- 70			Definitions of Vegetation Strata:			
10 11		- <u>//</u>						
12.		%			Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.			
			= Total Cove					
Woody Vine Stratum	(Plot size: <u>30'</u>)		. otal ooro.		Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
1		%			Herb – All herbaceous (non-woody) plants, regardless of 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		%_			Height.			
		0 % =	= Total Cover	•	Hydrophytic Vegetation Present? ⊠ Yes ☐ No			
Remarks (include photo numbers	here or on a separate s	heet): Photo	C-31. Domi	nance test is	s met.			

SOIL Sampling Point: SP-111 SP-111

Profile Desc	ription: (Describe	to the d	epth needed to docu	ment the	indicator or	confirm t	the absence of indicators.)			
Depth	Matrix		_ <u> </u>	Redox Fea	atures		_			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-6	2.5Y 3/1	95	10YR 6/3	5	C	M	sandy clay loam			
6-12	2.5Y 6/2	85	5YR 4/4	15	C	PL	clay loam			
12-24	2.5Y 3/1	90	5YR 4/4	5	C	PL	loamy clay			
			2.5Y 6/2	5	D	M				
		-				-				
		-		-						
			_			-				
				-		-				
		-	_							
						-				
			_							
¹Type: C=Cc	oncentration, D=Depl	etion, R	M=Reduced Matrix, M	S=Maske	d Sand Grair	าร	² Location: PL=Pore Lining	g, M=Matrix		
Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :										
☐ Histosol (/	A1)		☐ Dark Surface (S7) (LRR R	, MLRA 149I	B)	☐ 2 cm Muck (A10) (LRR K, L, N	VILRA 149B)		
☐ Histic Epip			☐ Polyvalue Below				☐ Coast Prairie Redox (A16) (LF	RR K, L, R)		
☐ Black Hist	tic (A3)		149B)	☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)						
☐ Hydrogen Sulfide (A4) ☐ Loamy Mucky Mineral (F1) (LRR K, L)							☐ Dark Surface (S7) (LRR K, L)			
☐ Stratified I	Layers (A5)		☐ Polyvalue Below Surface (S8)	(LRR, K, L)						
☐ Depleted	Below Dark Surface	(A11)	□ Depleted Matrix (□ Depleted Matrix ((F3)			☐ Thin Dark Surface (S9) (LRR,	K, L)		
☐ Thick Dar	k Surface (A12)		□ Redox Dark Surf	ace (F6)			☐ Iron-Manganese Masses (F12	() (LRR, K, L)		
☐ Sandy Mu	ıcky Mineral (S1)		☐ Depleted Dark S	urface (F7	7)		☐ Piedmont Floodplain Soils (F1	9) (MLRA 149B)		
☐ Sandy Gle	eyed Matrix (S4)		☐ Redox Depression	ns (F8)			☐ Mesic Spodic (TA6) (MLRA 14	44A, 145, 149B)		
☐ Sandy Re	dox (S5)						☐ Red Parent Material (F21)			
☐ Stripped N	Matrix (S6)						☐ Very Shallow Dark Surface (TF12)			
							☐ Other (Explain in Remarks)			
³ Indicators of	hydrophytic vegetat	ion and	wetland hydrology mu	st be pres	sent, unless o	listurbed o	r problematic			
Restrictive L	ayer (if observed):						Hydric Soil Present?			
Туре:			Depth (inches):				⊠ Yes □ No			
Remarks: H	ydric soil indicators I	F3 and F	6 are present.				I			

Project/Site: Lemoyne-Midway 138 kV Project	ot	City/County: Lucas County	Sampling Date:11/16/2016			
Applicant/Owner: ATSI		State	e: Ohio Sampling Point: SP-112			
Investigator(s): _ Gutman, Boatright		Section, Township, Ra	inge: _ T6N, R9E, S18			
Landform (hillslope, terrace, etc.)depressio	on	Local relief (concave, convex, no	ne): concave Slope (%): 5			
Subregion (LRR or MLRA): L	Lat: 41.47638	Long: -83.868	8 Datum: NAD83			
Soil Map Unit Name: Granby loamy fine sa	and		NWI Classification: N/A			
Are climate/hydrologic conditions on the site ty	ypical for this time o	of year? ⊠ Yes □ No (- If no, explain in Remarks)			
Vegetation Sc			7, 7, 7			
Significantly Disturbed?		Are "Normal Circumstand	ces" present? 🛛 Yes 🔲 No			
Naturally Problematic?		(If needed, explain a	ny answers in Remarks)			
SUMMARY OF FINDINGS – Attach site n	map showing sa	mpling point locations, trans	sects, important features, etc.			
		Remarks: Sample plot located in P				
Hydrophytic Vegetation Present?		temarks. Cample plot located in t	oo portion of 1 ENW1 oo W 100.			
Hydric Soil Present?						
Wetland Hydrology Present?						
Is the Sampled Area within a Wetland?						
<u> </u>						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one required:	2	☐ Surface Soil Cracks (B6)				
☐ Surface Water (A1)	☐ Drainage Patterns (B10)					
☐ High Water Table (A2)	☐ Moss Trim Lines (B16)					
☐ Saturation (A3)	☐ Dry-Season Water Table (C2)					
☐ Water Marks (B1)	ılfide Odor (C1)	☐ Crayfish Burrows (C8)				
☐ Sediment Deposits (B2)	Oxidized Rhi	zospheres on 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 F	Reduction in Tilled Soils (C6)				
☐ Iron Deposits (B5)	☐ Thin Muck S	urface (C7)	☐ Shallow Aquitard (D3)			
☐ Inundation Visible on Aerial Imagery (B7)	Other (Explain	in in Remarks)	☐ Microtopographic Relief (D4)			
☐ Sparsely Vegetated Concave Surface (B8)			☐ FAC-Neutral Test (D5)			
	Depth	Describe Recorded Data (stream	m gauge, monitoring well, aerial photos, previous			
Field Observations: Yes No	(IIIOIICO).	inspections, etc.), if available:				
Surface Water Present?						
Water Table Present?						
Saturation Present? (includes capillary fringe)	l					
Wetland Hydrology Present? □]					
Remarks: Wetland hydrology indicators C3, D		ent				
Remarks. Wettand Trydrology Indicators C3, D	oz, and bo are pres	ent.				

/EGETATION – Use scientific	c names of plants	Sampling Point: SP-112						
Tree Stratum	(Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1			Орескоз:		Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)			
2.		%			Total Number of Dominant			
3		%			Species Across All Strata: 2 (B)			
4		%			Percent of Dominant Species that are OBL, FACW, or FAC:100_(A/B)			
5								
6.					Prevalence Index worksheet:			
7					Total % Cover of:Multiply by:			
		=	= Total Cover		OBL species% x1 =0			
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)							
1. Salix interior		30 %	Υ	FACW	FACW species% x 2 =0			
2. Salix amygdaloides		E 0/		FACW	FAC species% x 3 =0			
3.					FACU species% x 4 =0			
4		%			UPL species% x 5 =0			
5		%			Column Totals:0 % (A)0 (B)			
6		%_			Prevalence Index = B/A =			
7		%_						
	35 % =	= Total Cove	•	Hydrophytic Vegetation Indicators:				
Herb Stratum				☐ 1 - Rapid Test for Hydrophytic Vegetation				
1. Typha latifolia				OBL	□ 2 - Dominance Test is >50%			
Schoenoplectus fluviatilis		5 %		OBL	☐ 3 - Prevalence Index is ≤3.0¹ ☐ 4 - Morphological Adaptations¹ (Provide			
3.								
4					supporting data in Remarks or on a separate sheet)			
5								
7.		- / %			☐ Problematic Hydrophytic Vegetation¹ (Explain)			
8.		%			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic			
9.		%						
10		%			Definitions of Vegetation Strata:			
11		<u></u> %			Tree – Woody plants 3 in. (7.6 cm) or more in			
12		%			diameter at breast height (DBH), regardless of height.			
Woody Vine Stratum	(Plot size: <u>30'</u>)	85 % =	= Total Cover	•	Sapling/Shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
1		%			Herb – All herbaceous (non-woody) plants, regardless			
2.					of size, and woody plants less than 3.28 ft tall.			
3.					Woody vine – All woody vines greater than 3.28 ft in			
4		0.4			height.			
		0 % =	= Total Cover	•	Hydrophytic Vegetation Present? ⊠ Yes ☐ No			
Remarks (include photo numbers	s here or on a separate s	heet): Photo	o C-32. Domii	nance test is	1 , , , ,			

Profile Description	ription: (Describe to Matrix	the de		iment the Redox Fea		confirm t	the absence of indicators.)			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	- Texture	Remarks		
0-2	2.5Y 3/1	80	2.5Y 6/1	20	D	M	clay loam			
2-10	2.5Y 6/2	75	10YR 5/6	20	С	PL	sandy clay			
			2.5Y5/4	5	С	М				
10-24	2.5Y 6/2	65	7.5YR 5/6	30	С	PL	sandy clay			
			10YR 6/4	5	С	M				
					-					
					·	-				
¹Type: C=Cc	ncentration, D=Deplet	ion, RM	=Reduced Matrix, M	IS=Maske	d Sand Grain	าร	² Location: PL=Pore Linin	g, M=Matrix		
Hydric Soil I							Indicators for Problematic Hyd			
☐ Histosol (A	A1)		☐ Dark Surface (S7	7) (LRR R	, MLRA 149	B)	☐ 2 cm Muck (A10) (LRR K, L ,	MLRA 149B)		
☐ Histic Epip	pedon (A2)		☐ Polyvalue Below	Polyvalue Below Surface (S8) (MLRA 147, 148)			☐ Coast Prairie Redox (A16) (LRR K, L, R)			
☐ Black Hist	ic (A3)		Thin Dark Surface (S9) (LRR R, MLRA 149B)			149B)	☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
☐ Hydrogen	Sulfide (A4)		☐ Loamy Mucky Mineral (F1) (LRR K, L)				☐ Dark Surface (S7) (LRR K, L)			
☐ Stratified L	Layers (A5)		☐ Loamy Gleyed M	latrix (F2)			☐ Polyvalue Below Surface (S8)	(LRR, K, L)		
☐ Depleted i	Below Dark Surface (A	11)	□ Depleted Matrix (□ Depleted Matrix ((F3)			☐ Thin Dark Surface (S9) (LRR	K, L)		
☐ Thick Darl	k Surface (A12)		☐ Redox Dark Surf	ace (F6)			☐ Iron-Manganese Masses (F12	2) (LRR, K, L)		
☐ Sandy Mu	icky Mineral (S1)		☐ Depleted Dark S	urface (F7	')		☐ Piedmont Floodplain Soils (F	19) (MLRA 149B)		
☐ Sandy Gle	eyed Matrix (S4)		Redox Depressions (F8)				☐ Mesic Spodic (TA6) (MLRA 1	44A, 145, 149B)		
☐ Sandy Re	dox (S5)						☐ Red Parent Material (F21)			
☐ Stripped N	Matrix (S6)						☐ Very Shallow Dark Surface (T	F12)		
							☐ Other (Explain in Remarks)			
³ Indicators of	hydrophytic vegetation	n and w	etland hydrology mu	st be pres	ent, unless o	disturbed o	r problematic			
Restrictive L	.ayer (if observed):						Hydric Soil Present?			
Туре:			Depth (inches):				⊠ Yes □ No			
Remarks: ⊢	ydric soil indicator F3 i	s prese	nt.							

Project/Site: Lemoyne-Midway 13	8 kV Project		City/County:	Lucas County		Sampling Date: <u>11/16/2016</u>				
Applicant/Owner: ATSI				State:	Ohio	Sampling Point: SP-113				
Investigator(s): Gutman, Boatrig	ht		Section	n, Township, Ran	ge: T0060N	, R0090E, S18				
Landform (hillslope, terrace, etc.)	terrace		Local relief (conc	ave, convex, non	e): convex	Slope (%): 0				
Subregion (LRR or MLRA): _L		Lat: 41.4764	16 L	_ong: <u>-83.87</u>		Datum: NAD83				
Soil Map Unit Name: Oakville fi	ne sand, 2 to	6 percent slop	es		NWI Classific	cation: N/A				
Are climate/hydrologic conditions o	n the site typic	cal for this time	e of year?	s □ No (If	no, explain in	Remarks)				
Vegeta	ation Soil	Hydrology								
Significantly Disturbed?				mal Circumstance		⊠ Yes □ No				
Naturally Problematic?			(IT I	needed, explain any	answers in Ren	narks)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.										
	Ye	s No	Remarks: Upland s	ample plot adjace	ent to PSS/PE	M W-103.				
Hydrophytic Vegetation Present?										
Hydric Soil Present?	\boxtimes									
Wetland Hydrology Present?										
Is the Sampled Area within a We	tland?									
HYDROLOGY										
Wetland Hydrology Indicators:					Secondary Inc	dicators (minimum of two required)				
Primary Indicators (minimum of one	<u>e required; ch</u>	eck all that app	o <u>ly)</u>	ſ	☐ Surface Soil Cracks (B6)					
☐ Surface Water (A1)		ſ	☐ Drainage Patterns (B10)							
☐ High Water Table (A2)		Ţ	☐ Moss Trim	Lines (B16)						
☐ Saturation (A3)		☐ Marl Depos	sits (B15)	Ţ	☐ Dry-Seasor	n Water Table (C2)				
☐ Water Marks (B1)		☐ Hydrogen \$	Sulfide Odor (C1)	Ţ	☐ Crayfish Bu	urrows (C8)				
☐ Sediment Deposits (B2)		☐ Oxidized R	hizospheres on Livin	g Roots (C3)	☐ Saturation \	Visible on Aerial Imagery (C9)				
☐ Drift Deposits (B3)		☐ Presence of	Reduced Iron (C4)							
☐ Algal Mat or Crust (B4)		☐ Recent Iron	Reduction in Tilled	Soils (C6)	☐ Geomorphic Position (D2)					
☐ Iron Deposits (B5)		☐ Thin Muck	Surface (C7)	1	☐ Shallow Aquitard (D3)					
☐ Inundation Visible on Aerial Ima	gery (B7)	☐ Other (Exp	lain in Remarks)	[☐ Microtopog	raphic Relief (D4)				
☐ Sparsely Vegetated Concave Se	urface (B8)			Γ	☐ FAC-Neutra	al Test (D5)				
Field Observations:	Yes No	Depth (inches):			gauge, monito	oring well, aerial photos, previous				
Surface Water Present?		(inches):	inspections, etc.), if available:						
Water Table Present?										
Saturation Present?										
(includes capillary fringe)										
Wetland Hydrology Present?										
Remarks: No wetland hydrology in	dicators prese	ent.								

VEGETATION – Use scientific names of plants

		Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u>	(Plot size: <u>30'</u>)	% Cover	Species?	Status	Number of Dominant Species	
1		%			that are OBL, FACW, or FAC: 0 (A)	
2		%			Total Number of Dominant	
3		%_	-		Species Across All Strata: 2 (B)	
4		%			Percent of Dominant Species that are OBL, FACW, or FAC: 0% (A/B)	
5		%_			that are oble, i how, of i ho.	
6		<u> </u>			Prevalence Index worksheet:	
7					Total % Cover of: Multiply by:	
		0 % =	Total Cover			
Sapling/Shrub Stratum	(Plot size: <u>15'</u>)				OBL species% x 1 =0	
Rubus allegheniensis		50 %	Y	FACU	FACW species% x 2 =0	
Prunus serotina		10 %	N	FACU	FAC species% x 3 =0	
3. Quercus macrocarpa		5 %	N	FACU	FACU species% x 4 =0	
4.					UPL species% x 5 =0	
5.		%			Column Totals: <u>0</u> % (A) <u>0</u> (B)	
6		%				
7		%			Prevalence Index = B/A =	
			Total Cover		Hydrophytic Vegetation Indicators:	
Herb Stratum	(Plot size: <u>5'</u>)				☐ 1 - Rapid Test for Hydrophytic Vegetation	
1. Bromus arvensis		20 %	Υ	FACU	☐ 2 - Dominance Test is >50%	
2. Poa pratensis		10 %	N	FACU		
3. Daucus carota		2 %	N	UPL	☐ 3 - Prevalence Index is ≤3.01	
4.					4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate	
5		%			sheet)	
6		%			☐ Problematic Hydrophytic Vegetation ¹ (Explain)	
7		<u></u> %			¹ Indicators of hydric soil and wetland hydrology must be	
8		%_			present, unless disturbed or problematic	
9		%_			Definitions of Variation Strate.	
10		<u>%</u>			Definitions of Vegetation Strata:	
11.		<u> </u>			Tree – Woody plants 3 in. (7.6 cm) or more in	
12					diameter at breast height (DBH), regardless of height.	
		32 % =	Total Cover		Sapling/Shrub – Woody plants less than 3 in. DBH	
Woody Vine Stratum	(Plot size: <u>30'</u>)				and greater than 3.28 ft (1 m) tall.	
1		%			Herb – All herbaceous (non-woody) plants, regardless	
2		<u></u> %			of size, and woody plants less than 3.28 ft tall.	
3		<u></u> %			Woody vine – All woody vines greater than 3.28 ft in	
4		%_			height.	
		0 % =	Total Cover		Hydrophytic Vegetation Present? ☐ Yes ☒ No	
Remarks (include photo numbers here	or on a senarate si	heet): Photo	C-33 Hydro	nhytic yeae	tation is not present	
Nemarks (morado proto namboro noro	or orra doparate or	<i>1001)</i> . 1 11010	0 00. Tiyaro	priytio vege	tation to not prosont.	

Sampling Point: SP-113

SOIL Sampling Point: SP-113

Profile Desc	ription: (Describe to	the d	epth needed to docu	ment the	indicator or co	onfirm t	the absence of indicators.)		
Depth	Matrix			Redox Fea			_		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-8	2.5Y 4/2	95	7.5YR 4/6	5	C	M	sandy loam		
8-24	10YR 5/6	90	-		· — — —		sand	mixed matrix	
	10YR 3/1	10							
				-	· 				
	·								
				-					
					· ——— —		<u>,</u>		
	·			-	· 				
¹ Type: C=Co	oncentration, D=Deple	tion, R	M=Reduced Matrix, M	S=Maske	ed Sand Grains		² Location: PL=Pore Lini	ng, M=Matrix	
Hydric Soil I	ndicators:						Indicators for Problematic Hy	dric Soils³:	
☐ Histosol (/	A1)		☐ Dark Surface (S7) (LRR R	, MLRA 149B)		☐ 2 cm Muck (A10) (LRR K, L ,	, MLRA 149B)	
☐ Histic Epip	pedon (A2)		☐ Polyvalue Below	Surface (S8) (MLRA 147	7, 148)	☐ Coast Prairie Redox (A16) (I	LRR K, L, R)	
☐ Black Hist	tic (A3)		☐ Thin Dark Surfac	e (S9) (L	RR R, MLRA 14	49B)	☐ 5 cm Mucky Peat or Peat (S	3) (LRR K, L, R)	
☐ Hydrogen	Sulfide (A4)		☐ Loamy Mucky Mi	neral (F1) (LRR K, L)		☐ Dark Surface (S7) (LRR K, L)		
☐ Stratified I	Layers (A5)		☐ Loamy Gleyed M	atrix (F2)			☐ Polyvalue Below Surface (S8) (LRR, K, L)		
☐ Depleted	Below Dark Surface (A	A11)	□ Depleted Matrix (□	F3)			☐ Thin Dark Surface (S9) (LRR, K, L)		
☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6			ace (F6)			☐ Iron-Manganese Masses (F12) (LRR, K, L)			
☐ Sandy Mu	ıcky Mineral (S1)		☐ Depleted Dark S	urface (F7	7)		☐ Piedmont Floodplain Soils (F	(MLRA 149B)	
☐ Sandy Gle	eyed Matrix (S4)		☐ Redox Depression	ns (F8)			☐ Mesic Spodic (TA6) (MLRA	144A, 145, 149B)	
☐ Sandy Re							☐ Red Parent Material (F21)		
☐ Stripped N	Matrix (S6)						☐ Very Shallow Dark Surface (TF12)	
							☐ Other (Explain in Remarks)		
³ Indicators of	hydrophytic vegetation	on and	wetland hydrology mu	st be pres	sent, unless dist	urbed o	r problematic		
Restrictive L	ayer (if observed):						Hydric Soil Present?		
Туре:			Depth (inches):			_	⊠ Yes □ No		
Remarks: H	ydric soil indicator F3	is pres	ent.						

APPENDIX C
SITE PHOTOGRAPHS



Photo C-1: View of sample plot (SP)-1 in PEM wetland (W)-1, looking south (August 2014).



Photo C-2: View of upland SP-2, looking south (August 2014).





Photo C-3: View of SP-3 in PEM W-3, looking north (August 2014).



Photo C-4: View of upland SP-4, looking south (August 2014).





Photo C-5: View of upland SP-5, looking north (August 2014).



Photo C-6: View of SP-6 in PEM W-4, looking southwest (August 2014).





Photo C-7: View of SP-7 in PEM W-4, looking west (August 2014).



Photo C-8: View of upland SP-8, looking south (August 2014).





Photo C-9: View of SP-9 in PEM W-5, looking west (August 2014).



Photo C-10: View of upland SP-10, looking north (August 2014).





Photo C-11: View of SP-11 in PEM W-6, looking north (August 2014).



Photo C-12: View of upland SP-12, looking west (August 2014).





Photo C-13: View of SP-13 in PEM W-7, looking north (August 2014).



Photo C-14: View of upland SP-14, looking north (August 2014).





Photo C-15: View of SP-15 in PEM W-8, looking north (August 2014).



Photo C-16: View of upland SP-16, looking north (August 2014).





Photo C-17: View of SP-17 in PEM W-9, looking east (August 2014).



Photo C-18: View of upland SP-18, looking north (August 2014).





Photo C-19: View of SP-101 in PEM W-2, looking north (November 2016).



Photo C-20: View of upland SP-102 looking north (November 2016).





Photo C-21: View of SP-103 in PEM W-101, looking southeast (November 2016).



Photo C-22: View of upland SP-104 looking east (November 2016).





Photo C-23: View of upland SP-105 looking west (November 2016).



Photo C-24: View of SP-106 in the PEM portion of PFO/PSS/PEM W-102 looking west (November 2016).





Photo C-25: View of upland SP-107, looking northeast (November 2016).



Photo C-26: View of SP-108 in the PSS portion of PFO/PSS/PEM W-102 looking southwest (November 2016).





Photo C-27: View of SP-109 in the PFO portion of PFO/PSS/PEM W-102, looking northwest (November 2016).



Photo C-28: View of upland SP-110 looking south (November 2016).





Photo C-29: View of SP-111 in the PEM portion of PSS/PEM W-103, looking south (November 2016).



Photo C-30: View of SP-112 in the PSS portion of PSS/PEM W-103, looking east (November 2016).





Photo C-31: View of upland SP-113 looking north (November 2016).



Photo C-32: View of intermittent stream (S)-1, looking north (August 2014).





Photo C-33: View of ephemeral S-2, looking northeast (August 2014).



Photo C-34: View of ephemeral S-3, looking north (August 2014).





Photo C-35: View of perennial S-4, looking north (August 2014).



Photo C-36: View of perennial S-4, looking south (August 2014).





Photo C-37: View of intermittent S-5, looking south (August 2014).



Photo C-38: View of ephemeral S-6, looking east (August 2014).





Photo C-39: View of intermittent S-7, looking north (August 2014).



Photo C-40: View of intermittent S-8, looking north (August 2014).





Photo C-41: View of intermittent S-8, looking south (August 2014).



Photo C-42: View of perennial S-9, looking north (August 2014).





Photo C-43: View of perennial S-10, looking north (August 2014).



Photo C-44: View of perennial S-10, looking south (August 2014).





Photo C-45: View of ephemeral S-11, looking north (August 2014).



Photo C-46: View of ephemeral S-12, looking north (August 2014).





Photo C-47: View of the western bank of the Maumee River (S-13), looking south (August 2014).



Photo C-48: View of Maumee River (S-13), looking north (August 2014).





Photo C-49: View of ephemeral S-14, looking north (August 2014).



Photo C-50: View of intermittent S-15, looking north (August 2014).





Photo C-51: View of ephemeral S-16, looking south (August 2014).



Photo C-52: View of intermittent S-17, looking south (August 2014).





Photo C-53: View of ephemeral S-18, looking northwest (August 2014).



Photo C-54: View of ephemeral S-19, looking northwest (August 2014).





Photo C-55: View of ephemeral S-20, looking south (August 2014).



Photo C-56: View of intermittent S-21, looking south (August 2014).





Photo C-57: View of intermittent S-22, looking north (August 2014).



Photo C-58: View of perennial S-23, looking southwest (August 2014).





Photo C-59: View of perennial S-24, looking northwest (August 2014).



Photo C-60: View of ephemeral S-25, looking northwest (August 2014).





Photo C-61: View of ephemeral S-101 looking south (November 2016).



Photo C-62: View of ephemeral S-102 looking west (November 2016).



APPENDIX D

ORAM SUMMARY WORKSHEETS

AND

WETLAND CATEGORIZATION WORKSHEETS

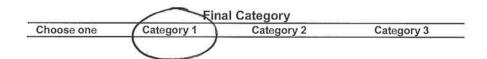
ORAM Summary Worksheet

M)-1

		circle answer or insert score	Result
Narrative Rating	Question 1 Critical Habitat	YES (NO)	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES (NO)	If yes, Category 3.
	Question 4. Significant bird habitat	YES NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES (NO)	If yes, Category 1.
	Question 6. Bogs	YES NO	If yes, Category 3.
	Question 7. Fens	YES NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES (NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
7,000	Question 9b. Lake Erie Wetlands - Restricted	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES (10)	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	1	
	Metric 2. Buffers and surrounding land use	1	
	Metric 3. Hydrology	8	
	Metric 4. Habitat	7	
	Metric 5. Special Wetland Communities	Ó	
	Metric 6. Plant communities, interspersion, microtopography	1	
	TOTAL SCORE	10	Category based on score breakpoints Category 1

Complete Wetland Categorization Worksheet.

Choices	Circle one	0	Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	(NO)	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been overcategorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Category 3 status	(NO)	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	NO	Is quantitative rating score <i>greater</i> than the Category 2 scoring threshold (<i>including</i> any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	Wetland is assigned to the appropriate category based on the scoring range	NO	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	(NO)	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).
Does the wetland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	Wetland is assigned to category as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, loca or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.



W-2

		circle	
		answer or insert	Result
		score	
Narrative Rating	Question 1 Critical Habitat	YES NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES (NO)	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES (NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES (NO	If yes, Category 1.
	Question 6. Bogs	YES (NO	If yes, Category 3.
	Question 7. Fens	YES (NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
, 94	Question 9b. Lake Erie Wetlands - Restricted	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
re.	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES (NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES (NO)	If yes, Category 3
	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	1	
;	Metric 2. Buffers and surrounding land use		
• •	Metric 3. Hydrology	11	
	Metric 4. Habitat	4	
	Metric 5. Special Wetland Communities	Ö	
	Metric 6. Plant communities, interspersion, microtopography	-4	
	TOTAL SCORE	13	Category based on score breakpoints

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

	71111	al Category	
Choose one	Category 1	Category 2	Category 3

W-3

		circle	
		answer or insert	Result
		score	
Narrative Rating	Question 1 Critical Habitat	YES (NO)	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES (NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES (NO	If yes, Category 1.
	Question 6. Bogs	YES (NO)	If yes, Category 3.
	Question 7. Fens	YES (NO)	If yes, Category 3.
	Question 8a. Old Growth Forest	YES (NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES (NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES (NO)	If yes, Category 3
	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	1	
· · · ·	Metric 2. Buffers and surrounding land use	1	
	Metric 3. Hydrology	11	
	Metric 4. Habitat	6	
	Metric 5. Special Wetland Communities	0	
•	Metric 6. Plant communities, interspersion, microtopography	-3	
	TOTAL SCORE	16	Category based on score breakpoints

Choices	Circle one	0	Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been overcategorized by the ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 1, 8b, 9b, 9e, 11	YES Wetland should be evaluated for possible Category 3 status	(NO)	Evaluate the wetland using the 1) narrative criteria in OAC Rule 3745-1-54(C) and 2) the quantitative rating score. If the wetland is determined to be a Category 3 wetland using either of these, it should be categorized as a Category 3 wetland. Detailed biological and/or functional assessments may also be used to determine the wetland's category.
Did you answer "Yes" to Narrative Rating No. 5	YES Wetland is categorized as a Category 1 wetland	(NO)	Is quantitative rating score <i>greater</i> than the Category 2 scoring threshold (<i>including</i> any gray zone)? If yes, reevaluate the category of the wetland using the narrative criteria in OAC Rule 3745-1-54(C) and biological and/or functional assessments to determine if the wetland has been under-categorized by the ORAM
Does the quantitative score fall within the scoring range of a Category 1, 2, or 3 wetland?	Wetland is assigned to the appropriate category based on the scoring range	NO	If the score of the wetland is located within the scoring range for a particular category, the wetland should be assigned to that category. In all instances however, the narrative criteria described in OAC Rule 3745-1-54(C) can be used to clarify or change a categorization based on a quantitative score.
Does the quantitative score fall with the "gray zone" for Category 1 or 2 or Category 2 or 3 wetlands?	YES Wetland is assigned to the higher of the two categories or assigned to a category based on detailed assessments and the narrative criteria	(NO)	Rater has the option of assigning the wetland to the higher of the two categories or to assign a category based on the results of a nonrapid wetland assessment method, e.g. functional assessment, biological assessment, etc, and a consideration of the narrative criteria in OAC rule 3745-1-54(C).
Does the wetland otherwise exhibit moderate OR superior hydrologic OR habitat, OR recreational functions AND the wetland was not categorized as a Category 2 wetland (in the case of moderate functions) or a Category 3 wetland (in the case of superior functions) by this method?	YES Wetland was undercategorized by this method. A written justification for recategorization should be provided on Background Information Form	Wetland is assigned to category as determined by the ORAM.	A wetland may be undercategorized using this method, but still exhibit one or more superior functions, e.g. a wetland's biotic communities may be degraded by human activities, but the wetland may still exhibit superior hydrologic functions because of its type, landscape position, size, local or regional significance, etc. In this circumstance, the narrative criteria in OAC Rule 3745-1-54(C)(2) and (3) are controlling, and the under-categorization should be corrected. A written justification with supporting reasons or information for this determination should be provided.

W-4

		circle	
		answer or	
		insert	Result
Newstive Detine	Question 1 Critical Habitat	score	If yes, Category 3.
Narrative Rating	Question 1 Critical Habitat	YES (NO	if yes, Category 3.
	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.
	Question 6. Bogs	YES (NO	If yes, Category 3.
	Question 7. Fens	YES (NO)	If yes, Category 3.
	Question 8a. Old Growth Forest	YES (NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d, Lake Erie Wetlands – Unrestricted with native plants	YES (NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES (NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	5	
Ü	Metric 2. Buffers and surrounding land use	9	
	Metric 3. Hydrology	10	
	Metric 4. Habitat	8	
	Metric 5. Special Wetland Communities	Ō	
	Metric 6. Plant communities, interspersion, microtopography	-2	
	TOTAL SCORE	30	Category based on score breakpoints

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

Final Category				
Choose one	Category 1	Category 2	Category 3	

W-5

		circle	
		answer or	
		insert	Result
		SCOKE	
Narrative Rating	Question 1 Critical Habitat	YES (NO	If yes, Category 3.
8 9	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES (NO	If yes, Category 3.
(00)	Question 4. Significant bird habitat	YES (NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.
	Question 6. Bogs	YES (NO	If yes, Category 3.
	Question 7. Fens	YES (NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES (NO)	If yes, Category 3.
" j	Question 8b. Mature Forested Wetland	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
(*) w	Question 9b. Lake Erie Wetlands - Restricted	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES (NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES (NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	\	
	Metric 2. Buffers and surrounding land use	1	
	Metric 3. Hydrology	q	
	Metric 4. Habitat	5	
	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersion, microtopography	-3	
	TOTAL SCORE	13	Category based on score breakpoints

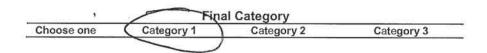
Choices	Circle one		Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	(NO)	Is quantitative rating score less than the Category 2 scoring threshold (excluding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

Choose one	Category 1	Category 2	Category 3
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W-6

		circle answer or	
		insert	Result
9		score	Result
Narrative Rating	Question 1 Critical Habitat	YES (NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES (NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES (NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES (NO)	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES (NO	If yes, Category 1.
	Question 6. Bogs	YES (NO)	If yes, Category 3.
	Question 7. Fens	YES (NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES (NO	If yes, Category 3.
* o «	Question 8b. Mature Forested Wetland	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
*	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES (NO)	If yes, Category 3
*	Question 11. Relict Wet Prairies	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size		
	Metric 2. Buffers and surrounding land use		
	Metric 3. Hydrology	Til Til	
	Metric 4. Habitat	5	
	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersion, microtopography	-4	
Đ	TOTAL SCORE	14	Category based on scorbreakpoints

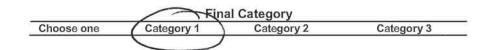
Choices	Circle one	_	Evaluation of Categorization Result of ORAM
Did you answer "Yes" to any of the following questions: Narrative Rating Nos. 2, 3, 4, 6, 7, 8a, 9d, 10	YES Wetland is categorized as a Category 3 wetland	NO	Is quantitative rating score less than the Category 2 scoring threshold (excluding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



W-7.

		circle	
		answer or	-
		insert	Result
		score	
Narrative Rating	Question 1 Critical Habitat	YES NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES (NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES (10)	If yes, Category 3.
	Question 4. Significant bird habitat	YES (NO)	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES (NO	If yes, Category 1.
	Question 6. Bogs	YES (NO	If yes, Category 3.
	Question 7. Fens	YES (NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES (NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
a ¹⁴	Question 9b. Lake Erie Wetlands - Restricted	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES (NO)	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES (NO)	If yes, Category 3
a a	Question 11. Relict Wet Prairies	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	1	
	Metric 2. Buffers and surrounding land use	1	
	Metric 3. Hydrology	9	
	Metric 4. Habitat	5	
ħ	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersion, microtopography	-3	
	TOTAL SCORE	13	Category based on score breakpoints

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



W-8

		circle	
		answer or	
		insert	Result
		score	
Narrative Rating	Question 1 Critical Habitat	YES (NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES (NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES (NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES (NO	If yes, Category 1.
	Question 6. Bogs	YES (NO	If yes, Category 3.
	Question 7. Fens	YES (NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES (NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES (NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES (NO	If yes, Category 3
-	Question 11. Relict Wet Prairies	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	3	
	Metric 2. Buffers and surrounding land use	9	
	Metric 3. Hydrology	15	
	Metric 4. Habitat	12	
	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersion, microtopography	2	
	TOTAL SCORE	41	Category based on score breakpoints modified Z

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

	Fin	al Category	
Choose one	Category 1	Category 2	Category 3

W-9

		circle	
		answer or	
		insert	Result
		score	
Narrative Rating	Question 1 Critical Habitat	YES NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES (NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES (NO)	If yes, Category 1.
	Question 6. Bogs	YES (NO	If yes, Category 3.
	Question 7. Fens	YES (NO)	If yes, Category 3.
	Question 8a. Old Growth Forest	YES NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	2	
Ü	Metric 2. Buffers and surrounding land use	9	
	Metric 3. Hydrology	21	
	Metric 4. Habitat	0	
	Metric 5. Special Wetland Communities	0	
	Metric 6. Plant communities, interspersion, microtopography	2	
	TOTAL SCORE	41	Category based on score breakpoints MDDIFIED Z

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

Choose one	Category 1	Category 2	Category 3
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W-101

		circle		
94		answer or	- W	
		insert	Result	
		score		
Narrative Rating	Question 1 Critical Habitat	YES (NO)	If yes, Category 3.	
	Question 2. Threatened or Endangered Species	YES (NO)	If yes, Category 3.	
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.	
	Question 4. Significant bird habitat	YES NO	If yes, Category 3.	
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.	
	Question 6. Bogs	YES (NO)	If yes, Category 3.	
	Question 7. Fens	YES (NO)	If yes, Category 3.	
	Question 8a. Old Growth Forest	YES (NO)	If yes, Category 3.	
i	Question 8b. Mature Forested Wetland	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.	
	Question 9b. Lake Erie Wetlands - Restricted	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.	
id!	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES NO	If yes, Category 3	
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.	
	Question 10. Oak Openings	YES NO	If yes, Category 3	
	Question 11. Relict Wet Prairies	YES (NO)	If yes, evaluate for Category 3; may also be 1 or 2.	
Quantitative Rating	Metric 1. Size	1		
	Metric 2. Buffers and surrounding land use	1		
7	Metric 3. Hydrology	q		
	Metric 4. Habitat	5		
	Metric 5. Special Wetland Communities	Ó		
	Metric 6. Plant communities, interspersion, microtopography	-3		
	TOTAL SCORE	13	Category based on score breakpoints	

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



W-102 PFO/PSS/PEM

	•	circle	
		answer or	
		insert	Result
		score	
Narrative Rating	Question 1 Critical Habitat	YES NO	If yes, Category 3.
	Question 2. Threatened or Endangered Species	YES NO	If yes, Category 3.
	Question 3. High Quality Natural Wetland	YES NO	If yes, Category 3.
	Question 4. Significant bird habitat	YES (NO	If yes, Category 3.
	Question 5. Category 1 Wetlands	YES NO	If yes, Category 1.
	Question 6. Bogs	YES NO	If yes, Category 3.
	Question 7. Fens	YES NO	If yes, Category 3.
	Question 8a. Old Growth Forest	YES (NO	If yes, Category 3.
	Question 8b. Mature Forested Wetland	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9b. Lake Erie Wetlands - Restricted	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 9d. Lake Erie Wetlands – Unrestricted with native plants	YES (NO	If yes, Category 3
	Question 9e. Lake Erie Wetlands - Unrestricted with invasive plants	YES (NO	If yes, evaluate for Category 3; may also be 1 or 2.
	Question 10. Oak Openings	YES NO	If yes, Category 3
	Question 11. Relict Wet Prairies	YES NO	If yes, evaluate for Category 3; may also be 1 or 2.
Quantitative Rating	Metric 1. Size	4	
v	Metric 2. Buffers and surrounding land use		
	Metric 3. Hydrology	20	
	Metric 4. Habitat	- 11	
	Metric 5. Special Wetland Communities		
	Metric 6. Plant communities, interspersion, microtopography	4	
	TOTAL SCORE	45	Category based on score breakpoints

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

Final Category							
Choose one	Category 1	Category 2	Category 3				

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in

Case No(s). 17-1566-EL-BLN

Summary: Application (Part 10) Exhibit 6-3 for the Dowling-Midway 138kV Transmission Line Reconductor Project filed by FirstEnergy, S. Humphrys electronically filed by Docketing Staff on behalf of Docketing