#### WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region Project/Site: Martin County Solar City/County: Martin County Sampling Date: 11 5 State: KY Sampling Point: WAS Applicant/Owner: 50000 Investigator(s): 5, Kelley, M. Johnson Section, Township, Range: NA Landform (hillslope, terrace, etc.): Rowside Local relief (concave, convex, none): Convex Slope (%): 3 Soil Map Unit Name: Fif: Eudolock, Funguint, Kaymine Soil, 30-80% slope, Stony NWI classification: NA Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes \_\_\_\_ No\_ Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes No V Remarks: Upland point associated w/ Wetland AI **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes \_\_\_\_ No \_\_\_ Depth (inches):\_\_\_\_\_ Yes \_\_\_ No \_\_\_ Depth (inches):\_\_\_\_ Water Table Present? Yes \_\_\_\_ No \_\_ Depth (inches):\_\_\_\_ Wetland Hydrology Present? Yes \_\_\_\_\_ No\_\_/ Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

24	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species	
1. Platunis occidentali	_5_	_/_	FACU	That Are OBL, FACW, or FAC:	(A)
2					
3	)			Total Number of Dominant Species Across All Strata:	(B)
				Species Across All Strata:	(D)
4				Percent of Dominant Species	
5,					(A/B)
6					
7				Prevalence Index worksheet:	
		= Total Cove		Total % Cover of: Multiply by:	
50% of total cover:				OBL species x 1 =	
	20% 01	total cover.		FACW species x 2 =	
Sapling/Shrub Stratum (Plot size: 15M )			20. 0	T.	
1. Eleagnus umbellata	95		UPL	FAC species x 3 =	
2,0				FACU species x 4 =	
				UPL species x 5 =	
3				Column Totals: (A)	(B)
4				Column Fotals: (/1)	(0)
5				Prevalence Index = B/A =	
6					
7				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
8				2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0¹	
		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide suppo	ortina
50% of total cover: 47.4	5 20% of	total cover:	19	The state of the s	orung
Herb Stratum (Plot size: 5A )				data in Remarks or on a separate sheet)	
1. Eleagnus umbellata	10		UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	)
			State of the state		
2. Rosa multiflora		$-\sqrt{-}$	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ıet
3. Lonicera japonica	10_		FACU	be present, unless disturbed or problematic.	JSC
4. Polistichum aristichroidies	5		FACU		
5. Lespeitra cuneata			FAW	Definitions of Four Vegetation Strata:	
o del		_		Tree - Woody plants, excluding vines, 3 in. (7.6 cr	n) or
6. Viola Soraria			FACU	more in diameter at breast height (DBH), regardles	ss of
7				height.	
8					
9				Sapling/Shrub – Woody plants, excluding vines, I than 3 in. DBH and greater than or equal to 3.28 ft	
				m) tall.	(1)
10				THY COM	
11,				Herb - All herbaceous (non-woody) plants, regard	less
	60	= Total Cove	er <sub>.</sub>	of size, and woody plants less than 3.28 ft tall.	
50% of total cover:	20% of	total cover:_	12		
Woody Vine Stratum (Plot size:)				Woody vine - All woody vines greater than 3.28 ft	t in
1				height.	_
		-			
2,					
3NA					
4.					
<u> </u>				Hydrophytic Vegetation	
		T 1 10		Present? Yes No	
		= Total Cove	2	100 110	
50% of total cover:	20% of	total cover:_			
Remarks: (Include photo numbers here or on a separate sl	heet.)				

Profile Des	cription: (Describe Matrix	to the depth		ment the i		or confirm	the abse	ence of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Textur	re Remarks
0-4	104R 3/2	(00					SL	
			-	\ <del></del>				
						N		
							-	
				-	_		-	
						X1		
-					-	-	-	
							_	
				-				
							-	_
	oncentration, D=Dep	letion, RM=Re	duced Matrix, M	S=Masked	Sand Gra	ains.		n: PL=Pore Lining, M=Matrix.
Hydric Soil		Г					<u> Ir</u>	ndicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	3 0	Ť	Dark Surface		(00) (1)			2 cm Muck (A10) (MLRA 147)
	oipedon (A2) istic (A3)	F	Polyvalue Be Thin Dark St				148)	Coast Prairie Redox (A16) (MLRA 147, 148)
	en Sulfide (A4)	F	Loamy Gley			47, 140)		Piedmont Floodplain Soils (F19)
	d Layers (A5)	Ļ	Depleted Ma		-,			(MLRA 136, 147)
	ick (A10) (LRR N)	L	Redox Dark		6)		F	Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Da				<b>+</b>	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					_
	Mucky Mineral (S1) (L	.RR N,	Iron-Mangar		es (F12) (I	LRR N,		
The second secon	A 147, 148) Gleyed Matrix (S4)		MLRA 13 Umbric Surfa	THE RESERVE TO SECURE A SECURE ASSESSMENT OF THE PARTY OF	MI DA 12	6 122)		<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)	Ī	Piedmont Flo				8)	wetland hydrology must be present.
	Matrix (S6)	Ī	Red Parent I				1000	unless disturbed or problematic.
The second secon	Layer (if observed):							BOAT TWO STATES AND THE STATES OF THE STATES
Type: _G	ravel layer		_					
Depth (in	ches): 4		_				Hydric	Soil Present? Yes No
Remarks:						-		
			2					

Project/Site: Martin County Solar City/C	county: Martin County Sampling Date: 11/5/20
Applicant/Owner: Swion	State: KY Sampling Point: WAS -67
Investigator(s): S.Kelley, M. Johnson Section	
Landform (hillslope, terrace, etc.): Hillslope Local reli	
Subregion (LRR or MLRA): LRRU Lat: 37.751509	
AND THE PROPERTY OF THE PROPER	
Soil Map Unit Name: Fif Firedock, Fairpoint, Kaymine soils, 30-8	
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly disturb	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Yes No	Is the Sampled Area
Hydric Soil Present?  Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Closed depression in open field Wetland AJ	
	PEM
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B	B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odd	or (C1) Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizosphere	es on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced	Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction	n in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C	
Algal Mat or Crust (B4) Other (Explain in Rem	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:  Surface Water Present? Yes No Depth (inches):	
Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes No Depth (inches):	
1/1	
Saturation Present? Yes No Depth (inches): Depth (inches):	Wetland Hydrology Present? Tes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	vious inspections), if available:
Remarks:	
Normality.	

Sampling I	Point:	WAS -	67
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	Absolute Dominant Ind	dicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? S	Status	Number of Dominant Species
1			That Are OBL, FACW, or FAC: $\mathcal{L}$ (A)
2		28	Total Number of Dominant
			Species Across All Strata: (B)
3			(5)
			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
5			That Are OBL, FACW, or FAC: (A/B)
6			Prevalence Index worksheet:
7,			Total % Cover of: Multiply by:
8	= Total Cover		OBL species x 1 =
50% of total cover:	20% of total cover:		
Sapling/Shrub Stratum (Plot size:)			FACW species x 2 =
1,			FAC species x 3 =
2			FACU species x 4 =
3			UPL species x 5 =
4. NA			Column Totals: (A) (B)
5			Prevalence Index = B/A =
6			Hydrophytic Vegetation Indicators:
7			1 - Rapid Test for Hydrophytic Vegetation
8			2 - Dominance Test is >50%
9			3 - Prevalence Index is ≤3.0¹
	= Total Cover		
50% of total cover:	_ 20% of total cover:		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5M )	,		data in Remarks or on a separate sheet)
1. Symphiotrichum dumosum	35	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
		FAC	
		PALL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Scirpus cyperinus			be present, unless disturbed or problematic.
4. Saliy nigra		OBL	Definitions of Four Vegetation Strata:
5. Solidago giganton 6. Ambrosia artenlisifolia	10 1	FAKW	T W
6. Ambrosia artemisifolia	15 F		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7			height.
8			
9			Sapling/Shrub – Woody plants, excluding vines, less than 3 in, DBH and greater than or equal to 3.28 ft (1
10.			m) tall.
11			
119	95 = Total Cover		Herb – All herbaceous (non-woody) plants, regardless
50% of total cover: <b>47.</b> 5	- Company of the second		of size, and woody plants less than 3.28 ft tall.
ACCUSATE AND ACCUSATE	_ 20% of total cover		Woody vine – All woody vines greater than 3,28 ft in
Woody Vine Stratum (Plot size:)		<u> </u>	height.
1,			
2			
3. NA			
4			Hydrophytic
5.			Vegetation
	= Total Cover		Present? Yes No
50% of total cover:			
Remarks: (Include photo numbers here or on a separate she			
Remarks. (include prioto numbers here of on a separate sin	zet.)		

Profile Description: (Describe to the de	pth needed to docun	nent the indicato	r or confirm	n the absence	of indicators.)
Depth <u>Matrix</u>	Redox	x Features			
(inches) Color (moist) %	Color (moist)		Loc <sup>2</sup> _	Texture	Remarks
0-4 104R 5/2 78	7,5 YR 6/C	7 C	M	SL	
1048 4/1 15		•	•		
10 115 11			-11		
					<del></del>
					-
	-	· · ·		) <del></del>	***************************************
				095	
<del></del>					
·					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, MS	S=Masked Sand G	Irains.		L=Pore Lining, M=Matrix.
Hydric Soil Indicators:				<u>Ind</u> ica	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Dark Surface	(S7)		2	cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Bel	low Surface (S8)	MLRA 147,		oast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Sui	rface (S9) (MLRA	147, 148)		(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleye	d Matrix (F2)		<b>⊢</b> Pi	iedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Mat	rix (F3)			(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark S	Surface (F6)		□ ∨ <sub>0</sub>	ery Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dari	k Surface (F7)		Ħ∘	ther (Explain in Remarks)
Thick Dark Surface (A12)	X Redox Depres	ssions (F8)			
Sandy Mucky Mineral (S1) (LRR N,	Iron-Mangane	ese Masses (F12)	(LRR N,		
MLRA 147, 148)	MLRA 136	6)			
Sandy Gleyed Matrix (S4)	Umbric Surfac	ce (F13) (MLRA 1	36, 122)	³Indi	icators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floo	odplain Soils (F19	) (MLRA 14	(8) wet	tland hydrology must be present,
Stripped Matrix (S6)	Red Parent M	laterial (F21) (ML	RA 127, 147	') unl	ess disturbed or problematic.
Restrictive Layer (if observed):					
Type: Gravel layer	-				
Depth (inches): 4				Hydric Soil	Present? Yes No
Remarks:					

Project/Site: Martin County Solar City/County: Martin County Sampling Date: 11 5 20
Project/Site: Martin County Solar City/County: Martin County Sampling Date: 11 5 26  Applicant/Owner: State: KY Sampling Point: WA5-68
Investigator(s): 5, Kelly, M. Johnson Section, Township, Range: NA
Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2
Subregion (LRR or MLRA): <u>LRRN</u> Lat: <u>37,751662</u> Long: <u>-82.456946</u> Datum: <u>NAD83(K</u>
Soil Map Unit Name: FiF: Fiveblack, Fairpoint, Kaymine Soil, 30-8020 20pe, Stony NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc
Hydrophytic Vegetation Present?  Yes No Is the Sampled Area  Hydric Soil Present?  Yes No Within a Wetland?  Yes No
Hydric Soil Present? YesNo within a Wetland? YesNo
Remarks:
Upland point associated w/ Wetland AJ
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
Surface Water (A1)  True Aquatic Plants (B14)  Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Drainage Patterns (B10)
Saturation (A3)  Oxidized Rhizospheres on Living Roots (C3)  Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)  Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Other (Explain in Remarks)  Stunted or Stressed Plants (D1)
Iron Deposits (B5)
Inundation Visible on Aerial Imagery (B7)  Shallow Aquitard (D3)  Missature great in Bullet (D4)
Water-Stained Leaves (B9)  Microtopographic Relief (D4)
Aquatic Fauna (B13)  FAC-Neutral Test (D5)
Field Observations:
Water Table Present?  Yes No Depth (inches):
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
in the second se

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30M)	% Cover		The state of the s	Number of Dominant Species
1. Juniperus virginiana	15		FACU	That Are OBL, FACW, or FAC:(A)
2				
				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
		Total Cove	-	Total % Cover of: Multiply by:
50% of total cover: 7.5				OBL species x 1 =
	20% or to	otal cover:_		
Sapling/Shrub Stratum (Plot size: 15M				FACW species x 2 =
1. Eleagnus umbellata	20		UPL	FAC species x 3 =
2,				FACU species x 4 =
3				UPL species x 5 =
				Column Totals: (A) (B)
4,				(2)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
9,				3 - Prevalence Index is ≤3.01
	20 =			4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:	20% of to	otal cover:_	+	
Herb Stratum (Plot size: 5M )				data in Remarks or on a separate sheet)
1. Andropogon Virginicus	20		EALU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2 Setana pumila		_	FAC	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Symphoto dum dumosum			FAC	be present, unless disturbed or problematic.
4. Lespedeza coneada	30		FACU	Definitions of Four Vegetation Strata:
5. Eleagnus umbellata	ID		UPL	and the state of t
6. 501:dago giganten	5			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
3 30 00	-			more in diameter at breast height (DBH), regardless of
7,				height,
8,			<del></del>	Sapling/Shrub – Woody plants, excluding vines, less
9,				than 3 in, DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Mark All barbarana (annual de la
· · · · · · · · · · · · · · · · · · ·	90 =	Total Cove	-	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45		otal cover:_		or size, and woody plants less than 5.20 it tall.
	20% 01 10	Jiai Cover	10	Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1,				
2				
3NA				
			7.	
4				Hydrophytic
5,				Vegetation /
		Total Cove		Present? Yes No
50% of total cover:	20% of to	otal cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	ription: (Describe	to the depth	needed to docum	nent the ir	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redox	x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-1	104R 3/3	100					SIL	
1-4	10484/2	93	104R 6/4	7	C	M	SCL	
1-1	10115 700		10118				300	<del></del>
16						.—		
	-						-	
							-	
								-
								*L/
'Type: C=C	oncentration, D=Depl	etion, RM=Re	educed Matrix, MS	=Masked	Sand Gra	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil		-	_					ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)	Ļ	Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
	pipedon (A2)	L	Polyvalue Bel		e (S8) <b>(M</b>	LRA 147,		Coast Prairie Redox (A16)
Black Hi		Γ	Thin Dark Sur					(MLRA 147, 148)
	n Sulfide (A4)	Ī	Loamy Gleyer	and the second second second			Ļ⊒ F	Piedmont Floodplain Soils (F19)
	Layers (A5)	Ė	V Depleted Mat					(MLRA 136, 147)
	ick (A10) (LRR N)	Ļ	Redox Dark S		5)		Ħ∨	/ery Shallow Dark Surface (TF12)
Depleted	Below Dark Surface	(A11)	Depleted Dari	k Surface (	(F7)			Other (Explain in Remarks)
Thick Da	ark Surface (A12)	1	Redox Depres	ssions (F8	)			
Sandy M	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangane	se Masse	s (F12) <b>(</b> L	RR N,		
	147, 148)	F	MLRA 136					
	leyed Matrix (S4)	F	Umbric Surfac					licators of hydrophytic vegetation and
	edox (S5)	Ļ	Piedmont Floo					etland hydrology must be present,
	Matrix (S6)		Red Parent M	laterial (F2	(1) (MLRA	4 127, 147	') un	less disturbed or problematic.
	ayer (if observed):							
Type: _6	ravel layer		_					
Depth (inc	ches): 4		_				Hydric Soil	Present? Yes/_ No
Remarks:								
								*
			10*1/					
								1

Project/Site: Martin County Solar City/	County: Martin County Sampling Date: 11/08/20							
Project/Site: Martin County Solar City/C Applicant/Owner: Savion	State: KY Sampling Point: WAS 69							
Investigator(s): 5 heller, M. Jahrson Section								
Landform (hillslope, terrace, etc.): hill to P Local rel								
	Y 2							
	Long:82,453456 Datum: NAO 83/4/FIRS							
Soil Map Unit Name: F; F; Firellack, Fairpint, Kaymine Soils, 30								
Are climatic / hydrologic conditions on the site typical for this time of year? Y								
Are Vegetation, Soil or Hydrology significantly distur	bed? Are "Normal Circumstances" present? Yes No							
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)								
SUMMARY OF FINDINGS – Attach site map showing san	npling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes   No  Yes   No  No  No  No  No  No  No  No  No  N	Is the Sampled Area within a Wetland? Yes No							
Remarks: Wetland AK	PEM							
Closed depression in open field								
HYDROLOGY								
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)							
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)							
Surface Water (A1)  True Aquatic Plants (								
High Water Table (A2)  Hydrogen Sulfide Od								
Saturation (A3) Oxidized Rhizosphere	es on Living Roots (C3) Moss Trim Lines (B16)							
Water Marks (B1) Presence of Reduced	l Iron (C4) Dry-Season Water Table (C2)							
Sediment Deposits (B2) Recent Iron Reduction	n in Tilled Soils (C6) Crayfish Burrows (C8)							
Drift Deposits (B3)								
Algal Mat or Crust (B4) Other (Explain in Rer	The state of the s							
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Geomorphic Position (D2) Shallow Aguitard (D3)							
Water-Stained Leaves (B9)	Microtopographic Relief (D4)							
Aquatic Fauna (B13)	FAC-Neutral Test (D5)							
Field Observations:								
Surface Water Present? Yes No Depth (inches):								
Water Table Present? Yes No Depth (inches):								
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes V No							
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre								
Describe Recorded Data (stream gauge, monitoring well, aerial priotos, pre	vidus inspections), ii available.							
Remarks:								

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		
1		STOREST CONTRACTOR		Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
				That the OBE, 17 to V, of 17 to.
3N/N	<:			Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6,				2.
7				Prevalence Index worksheet:
-		Total Cove	er	Total % Cover of: Multiply by:
50% of total cover:				OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)	1 50 00 00 00 00 00	THE PERSONNELL PROPERTY OF THE PERSONNELL PROPER		FACW species x 2 =
1				FAC species x 3 =
1/2				FACU species x 4 =
2,				UPL species x 5 =
3				
4. UA				Column Totals: (A) (B)
5,				Dravalance Index = D/A =
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
8			-	1 - Rapid Test for Hydrophytic Vegetation
				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		Total Cove		4 - Morphological Adaptations (Provide supporting
50% of total cover:	20% of t	otal cover:_		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)		1	1.2	Problematic Hydrophytic Vegetation¹ (Explain)
1. Symphotrichum dumosum	<u>SS</u>		FAC	Problematic Hydrophytic Vegetation (Explain)
2. Bidens Frondosa	10		FACW	
3. Juneus marginatus	5		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Carex Frankis				
5 Lespedeza cuneata	1		FAUL	Definitions of Four Vegetation Strata:
			FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Lonicera japonira		1000		more in diameter at breast height (DBH), regardless of
7. Juneus tenhis	20		FAC	height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11,				Herb – All herbaceous (non-woody) plants, regardless
	96 =	Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 48		otal cover:		
Woody Vine Stratum (Plot size:)			•	Woody vine – All woody vines greater than 3.28 ft in
1				height.
2				
NA	27			
3.				
4				Hydrophytic
5				Vegetation
		Total Cove		Present? Yes No
50% of total cover:	20% of t	otal cover:_		
Remarks: (Include photo numbers here or on a separate s	heet.)			
				16

Profile Description: (Describe to the d	lepth needed to docu	ment the ir	ndicator	or confirm	the absence	e of indicators.)
Depth Matrix	Redo	x Features				
(inches) Color (moist) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
B-4 1048 4/1 85	754R6/8	15	<u>C</u> .	M	SL	
5						
					4	
-2470						
19	-					· ·
		-				··
					-	
· · · · · · · · · · · · · · · · · · ·	-					· · · · · · · · · · · · · · · · · · ·
7						
	- IN				2	
¹Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, M	S=IVIasked	Sand Gra	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		ACC 2017 12 - 1-1-1				eators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Dark Surface					2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Be			100	148)	Coast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Su			47, 148)	$\Box$	(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleye		2)			Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Ma					(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark	Surface (F6	5)			Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Da	rk Surface	(F7)		H	Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depre	essions (F8	)			1
Sandy Mucky Mineral (S1) (LRR N,	Iron-Mangan	ese Masse	s (F12) <b>(I</b>	LRR N,		
MLRA 147, 148)	MLRA 13	6)				
Sandy Gleyed Matrix (S4)	Umbric Surfa	ace (F13) (N	ILRA 13	6, 122)	<sup>3</sup> Inc	dicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Flo	odplain So	ils (F19)	(MLRA 14	8) w	etland hydrology must be present,
Stripped Matrix (S6)	Red Parent I	Material (F2	1) (MLR	A 127, 147	') ur	nless disturbed or problematic.
Restrictive Layer (if observed):						
Type: gravel						,
Depth (inches): 4:^					Hydric Soi	I Present? Yes No
					Tiyane 301	Triesent: Tes No
Remarks:						

Project/Site: Martin County Solar City/County	Martin Lounty Sampling Date: 1/105/20
Applicant/Owner: Sav. 20	State: KY Sampling Point: WAS-70
Investigator(s): 5. Mcliey, M. Johnson Section, To	
Landform (hillslope, terrace, etc.): Hilltop Local relief (co	
Subregion (LRR or MLRA): LRR N Lat: 37,751423	0.000
Soil Map Unit Name: Fi F: Five block, Fair point, Kymine Soils, 30-20	NVI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing samplin	g point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No le th	
1/ 13 (1)	e Sampled Area
Wetland Hydrology Present? Yes No	in a Wetland? Yes No
Remarks	
V. Y.	
Upland point associat	ed with Wet-AK
Op a pont	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)  True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1	) Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on	Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron	
Sediment Deposits (B2)  Recent Iron Reduction in Ti	2 2
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Other (Explain in Remarks)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	inspections), if available:
, a	
Remarks:	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2. 1				Total Number of Dominant
3		411		Species Across All Strata: (B)
4. + NA				D
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
6		303		THEORE OBE, THOW, STING:
7		**		Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover:		THE PROPERTY AND PROPERTY.		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15 M )				FACW species x 2 =
1. Eleganus un belfatum	20	$\sqrt{}$	LA.OI	FAC species x 3 =
				FACU species x 4 =
2. Rhus copallinum				UPL species x 5 =
3. Juni perus Virginamin			FREM	Column Totals: (A) (B)
4,	D			Column Totals(A)(B)
5	-			Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				
	95	= Total Cov	er	3 - Prevalence Index is ≤3.0¹
50% of total cover: <u>47.5</u>				4 - Morphological Adaptations (Provide supporting
Herb Stratum (Plot size: 5M)				data in Remarks or on a separate sheet)
1. Salidacio camaciensis	.5		FACY	Problematic Hydrophytic Vegetation¹ (Explain)
2. Triagns flauge			FACU	
3. Androposon vicarne				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
			•	be present, unless disturbed or problematic.
4. Asplenium platynowan				Definitions of Four Vegetation Strata:
5. Elocigin us un bellato			UDL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Lespedera cunectos			+W.CI	more in diameter at breast height (DBH), regardless of
7. Symphotrichum dumonum	<u> </u>	-	FAC	height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	54	= Total Cove	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 27	20% of	total cover:	10.8	Mary desires Allers desired and the 2000 ft.
Woody Vine Stratum (Plot size:)			_	Woody vine – All woody vines greater than 3.28 ft in height.
1.				Tro-grit.
2.				
3. NA				
1				,
		-		Hydrophytic
5			1	Vegetation Present? Yes No
50% of total cover:		= Total Cove		
		total cover.		
Remarks (Include photo numbers here or on a separate s	neet.)			
MI.				

Sampling Point: <u>WAS-70</u>

Profile Descript	ion: (Describe t	to the depth				or confirm	the abs	sence of indicators.)
Depth	Matrix		Redo	x Features	<u> </u>	1 2	<b>+</b> .	D
	Color (moist)	%	Color (moist)	%	_Type <sup>1</sup>	_Loc <sup>2</sup>	Textu	
0-4	104R3/2	100					SL	
		200						
							-	
					2			
10-				-				
07 <u></u>							-	
n								<del></del>
¹Type: C=Conce	entration, D=Depl	etion, RM=R	educed Matrix, M	S=Masked	Sand Gra	ains.	<sup>2</sup> Locatio	on: PL=Pore Lining, M=Matrix.
Hydric Soil India								Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
Histic Epiped			Polyvalue Be		e (S8) (M	ILRA 147,	148)	Coast Prairie Redox (A16)
Black Histic			Thin Dark Su				- ' F	(MLRA 147, 148)
Hydrogen St			Loamy Gleye				Ļ	Piedmont Floodplain Soils (F19)
Stratified Lay			Depleted Ma	trix (F3)				(MLRA 136, 147)
2 cm Muck (	A10) (LRR N)		Redox Dark	Surface (F6	6)		Ī	Very Shallow Dark Surface (TF12)
Depleted Be	low Dark Surface	(A11)	Depleted Da	k Surface	(F7)		F	Other (Explain in Remarks)
Thick Dark S	Surface (A12)		Redox Depre				L	<b>_</b>
	y Mineral (S1) (L	RR N,	Iron-Mangan		s (F12) <b>(L</b>	_RR N,		
MLRA 147			MLRA 13					
	ed Matrix (S4)		Umbric Surfa	50 50 50		8 6		<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Redo			Piedmont Flo					wetland hydrology must be present,
Stripped Mat			Red Parent N	/laterial (F2	21) <b>(MLR</b> /	4 127, 147	)	unless disturbed or problematic.
Restrictive Laye	41							
Type:9								
Depth (inches	): _ <u>Uin</u>		_				Hydric	Soil Present? Yes No
Remarks:								
2:								

Project/Site: Martin County Salar City/County: Martin County Sampling Date: 1/16/20
Applicant/Owner: Saving State: KY Sampling Point: WK-71
Investigator(s): 5. Kcllc.; C. Knabel Section, Township, Range: ~/#
Landform (hillslope, terrace, etc.): H:11+00 Local relief (concave, convex, none): Concave Slope (%): 0,5
Subregion (LRR or MLRA): LRN   Lat: 37.752514   Long: -82.452985   Datum: NAI783(MA
Soil Map Unit Name: File Fixebook, Fargoine, Kaymine soil, 30-80 % soll, stony NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Yes No Is the Sampled Area
Hydric Soil Present? Yes No
Wetland Hydrology Present? Yes No
Remarks:
Wettind AL
Closed depression in field
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
Surface Water (A1)  True Aquatic Plants (B14)  Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Drainage Patterns (B10)
Saturation (A3)  Oxidized Rhizospheres on Living Roots (C3)  Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Other (Explain in Remarks)  Stunted or Stressed Plants (D1)
Iron Deposits (B5)
Inundation Visible on Aerial Imagery (B7)  Shallow Aquitard (D3)
Water-Stained Leaves (B9) Aquatic Fauna (B13) Microtopographic Relief (D4)  X FAC-Neutral Test (D5)
Aquatic Fauna (B13)  Field Observations:
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes No Depth (inches): O Wetland Hydrology Present? Yes No Depth (inches): O Wetland Hydrology Present?
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species
1		That Are OBL, FACW, or FAC:(A)
2		Total Number of Dominant
3.		Species Across All Strata: 3 (B)
4 NR		
		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
		That Are OBL, FACW, or FAC; (A/B)
6		Prevalence Index worksheet:
7,		Total % Cover of: Multiply by:
F00/ - 51-1-1	= Total Cover	OBL species x 1 =
	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		
1;		FAC species x 3 =
2		FACU species x 4 =
3,		UPL species x 5 =
		Column Totals; (A) (B)
5. NK		
6		
		i ilyaropitytic vegetation mulcators.
7		1 Rapid Test for Hydrophytic Vegetation
8		2 - Dominance Test is >50%
9		3 - Prevalence Index is ≤3.01
	= Total Cover	4 - Morphological Adaptations¹ (Provide supporting
and the second s	20% of total cover:	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5M		
1. Junios effusios	40 FACIL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Symphistridium dumosum	20 / FPL	
3. Typha angustfolla	25 BBL	¹Indicators of hydric soil and wetland hydrology must
4. Arthraxon hispidis	15 FAC	be present, unless disturbed or problematic.
		Definitions of Four Vegetation Strata:
5		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6,		more in diameter at breast height (DBH), regardless of
7		height.
8		Sapling/Shrub – Woody plants, excluding vines, less
9		than 3 in. DBH and greater than or equal to 3.28 ft (1
10		m) tall.
11		Herb – All herbaceous (non-woody) plants, regardless
	100 = Total Cover	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 5	20% of total cover: 20	
Woody Vine Stratum (Plot size:)		Woody vine – All woody vines greater than 3,28 ft in
1		height.
2		
3 NA		
3P		
4		Hydrophytic
5		Vegetation Present? Yes No
	= Total Cover	Present? Yes No
50% of total cover:	20% of total cover:	
Remarks: (Include photo numbers here or on a separate s	sheet.)	
		I

Profile Des	cription: (Describe	to the depth	needed to docu	ment the i	ndicator o	or confirm	the absent	ce of indicators.)
Depth	Matrix			x Feature:		1 2	<b>-</b>	
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-4	2,543/1	85_	104R 46	15		M	SCL	
	MI	// <del></del>			8			
					-		-	
	¥= <u></u>						-	
	W					1		
								All the second
	**		7 1	1				The state of the s
	1 -			-				The Residence of the second
	(A		17		- 17			
1 2								203
								4.
Type: C=C	Concentration, D=Dep	etion RM≐R	educed Matrix M	S=Masked	Sand Gra	ains	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
	Indicators:	r		- 111001100	Odina Oic			cators for Problematic Hydric Soils <sup>3</sup> :
Histoso		- 1	Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) <b>(M</b>	LRA 147.		Coast Prairie Redox (A16)
_	listic (A3)	J	Thin Dark Su					(MLRA 147, 148)
	en Sulfide (A4)	7 5	Loamy Gleye					Piedmont Floodplain Soils (F19)
Stratifie	d Layers (A5)	1 5	Depleted Ma	trix (F3)		L.		(MLRA 136, 147)
	uck (A10) (LRR N)	10	Redox Dark					Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Da					Other (Explain in Remarks)
	ark Surface (A12)		★ Redox Depre					
	Mucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) <b>(L</b>	RR N,		2
	A 147, 148)	· I	MLRA 13	0	MI DA 124	c 422)	31,	ndicators of hydrophytic vegetation and
	Gleyed Matrix (S4) Redox (S5)	Y .	Umbric Surfa Piedmont Flo					vetland hydrology must be present,
	d Matrix (S6)	Ť	Red Parent I					inless disturbed or problematic
	Layer (if observed):		Trod Faront I	viatorial (17)	e i j (iii Ei G		,	These dictained of presimilation
Type:								1 7
	ches):	2 / 940	100		14 19		Hydric So	oil Present? Yes No
7.1	cries).	SECTION AND ADDRESS.		5 7			Tiyane 30	in resent: res no
Remarks:		MA JOH					0	1
ab.		O XXXIII	7	72.0	7515			<u> </u>
1) 100								
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37			The state of the s				1	100
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				AN EST	17.6	N.	C)	14 P
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				4[ N		(%)	3	-1
				171			· ope	I.

Project/Site: Martin County Solar City/County	Martin County Sampling Date: 11/5/20
Applicant/Owner: Sarian	State: KY Sampling Point: WAS-72
Investigator(s): 5. Kelley C. Knabel Section, To	
Landform (hillslope, terrace, etc.): Hill top Local relief (cc	
Subregion (LRR or MLRA): LRRU Lat: 37,752606	
Soil Map Unit Name: F:F: Fivdolock, Fairpoint, Kaymine soils, 10-8090	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	<i>-</i> 1
Are Vegetation, Soil or Hydrology significantly disturbed?	
Are Vegetation, Soil, or Hydrology naturally problematic?	
SUMMARY OF FINDINGS – Attach site map showing samplin	g point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Yes No	e Sampled Area
Hudrig Spil Propent?	in a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Remarks:	
Woland Point associat	red w/ Wetland AL & AM
Oberes 10111.	•
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1	) Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on	
Water Marks (B1) Presence of Reduced Iron	
Sediment Deposits (B2)  Recent Iron Reduction in T	
Drift Deposits (B3) Thin Muck Surface (C7)  Other (Funds in Permate)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Fron Deposits (B5)  Other (Explain in Remarks)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes NoDepth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	inspections), if available:
Demarks	
Remarks:	
ž.	

# VEGETATION (Four Strata) – Use scientific names of plants. Absolute Dominan

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1	% Cover			Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2,				Total Number of Dominant
3				Total Number of Dominant Species Across All Strata:  (B)
4. N/A				Daniel of Daniel Caraly
5				Percent of Dominant Species That Are OBL, FACW, or FAC:
6	V <del>1</del>			
7				Prevalence Index worksheet:
		Total Cove		Total % Cover of: Multiply by:
50% of total cover:	20% of	total cover:_		OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15M		_		FACW species x 2 =
1. Eleagris umbollata	50		UPL	FAC species x 3 =
2				FACU species x 4 =
3	-			UPL species x 5 =
4				Column Totals: (A) (B)
5	-			Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7,			:	1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
2.45		Total Cove		4 - Morphological Adaptations¹ (Provide supporting
50% of total cover: 25	20% of t	total cover:_	10	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Tridens Flaus			FACU	
2. Lespedera cuneada			FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Solidago canadensis			FACU	be present, unless disturbed or problematic.
4. Junius estusus			FACU	Definitions of Four Vegetation Strata:
5. Echinocloa grus-galli	20_		FAL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Andropagon virances	_5		FACO	more in diameter at breast height (DBH), regardless of
7				height.
8	<u> </u>			Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3,28 ft (1
10,				m) tall.
11,				Herb – All herbaceous (non-woody) plants, regardless
		Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover:	20% of t	otal cover:_	<del></del> s	Woody vine - All woody vines greater than 3,28 ft in
Woody Vine Stratum (Plot size:)				height.
2	+			
3				
4				Hydrophytic
5		Total Cove		Vegetation Present? Yes No
50% of total cover:				
Remarks: (Include photo numbers here or on a separate s		otal cover		
Transmo. (morado prioto numbero nere or on a separate s				
N.				

Profile Description: (Describe to the de				or confirm	n the absence	e of indicators.)
Depth Matrix (inches) Color (moist) %	Color (moist)	x Features		Loc <sup>2</sup>	Toxtura	Remarks
		_%_	Type¹		Texture	кетакѕ
0-3 10484/1 95	10485/6	5	<u></u>	M	SICL	( <del></del>
		-			-	
			-			
						· <u></u>
V						
						8)
, <del></del>						
	7		-			
<sup>1</sup> Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, MS	=Masked	Sand Gra	ins.		PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:					Indic	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Dark Surface					2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Bel		100		148)	Coast Prairie Redox (A16)
Black Histic (A3)	Thin Dark Sur			47, 148)		(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyer		2)		H	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	➤ Depleted Mat		• (		님.	(MLRA 136, 147)
2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11)	Redox Dark S Depleted Dark					/ery Shallow Dark Surface (TF12) Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depres					otter (Explain in Nemarks)
Sandy Mucky Mineral (S1) (LRR N,	Iron-Mangane			RR N.	10	
MLRA 147, 148)	MLRA 136		- (/, (-	,		
Sandy Gleyed Matrix (S4)	Umbric Surface		/ILRA 130	6, 122)	3Inc	dicators of hydrophytic vegetation and
Sandy Redox (S5)	Piedmont Floo	odplain So	ils (F19)	MLRA 14	8) we	etland hydrology must be present,
Stripped Matrix (S6)	Red Parent M	laterial (F2	1) (MLRA	127, 147	') un	less disturbed or problematic.
Restrictive Layer (if observed):						
Type: Gravel layer						
Depth (inches): 3					Hydric Soil	Present? Yes No
Remarks:						

Project/Site: Martin County Solar City/County: Martin County Sampling Date: 11/6/20
Applicant/Owner: State: KY Sampling Point: IVAS-73
Investigator(s): S. Kettey C. Kunbel Section, Township, Range: N/A
Landform (hillslope, terrace, etc.): Hillian Local relief (concave, convex, none): Concal Slope (%): 0.5
Subregion (LRR or MLRA):LRN Lat: _37.752533 Long:82,452516 Datum:NAD83 (K-y)
Soil Map Unit Name: FIF Evelock, Fairpoint, Kaymine soil, 30-80 % slope, Stony NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no. explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Yes No Is the Sampled Area
Hydric Soil Present? Yes No within a Wetland? Yes No
Wetland Hydrology Present? Yes No
Remarks:
Wetland AM
Closed depression in open field
HYDROLOGY
Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
Surface Water (A1)  True Aquatic Plants (B14)  Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Drainage Patterns (B10)
Saturation (A3)  Oxidized Rhizospheres on Living Roots (C3)  Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)  Crayfish Burrows (C8)
Drift Deposits (B3)  Thin Muck Surface (C7)  Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)
Inundation Visible on Aerial Imagery (B7)  Shallow Aquitard (D3)
Water-Stained Leaves (B9)  Microtopographic Relief (D4)
Aquatic Fauna (B13)  FAC-Neutral Test (D5)
Field Observations:  Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes Vo Depth (inches): 2:0 Wetland Hydrology Present? Yes No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks

	Absolute Dominant Indic	cator Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Sta	
1,		That Are OBL, FACW, or FAC: (A)
2,		
3		Total Number of Dominant Species Across All Strata: (B)
1974 (185)		Species Across All Strata: (B)
		Percent of Dominant Species
5,		That Are OBL, FACW, or FAC: (A/B)
6		Prevalence Index worksheet:
7		The second secon
	= Total Cover	Total % Cover of: Multiply by:
50% of total cover:	20% of total cover:	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)		FACW species x 2 =
1,		FAC species x 3 =
2		FACU species x 4 =
		UPL species x 5 =
3		Column Totals: (A) (B)
4		Column rotals(A)(B)
5. NA		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7,		
8,		1 - Rapid Test for Hydrophytic Vegetation
9		2 - Dominance Test is >50%
3	= Total Cover	3 - Prevalence Index is ≤3.0¹
50% of total cover:		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1000	2070 01 total cover	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5M )	· ·	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Scirpus cypeninus		pline
2. Symphiatrichum du Mosligm		I have the second of the state of the second
3. Ambrosia arremisitalia	20 / FA	be present, unless disturbed or problematic.
4. Arthrason hispidis	25 / FA	Definitions of Four Vegetation Strata:
5. Cores Frank:	5 01	3L
6		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
		more in diameter at breast height (DBH), regardless of height.
7		Height.
8		Sapling/Shrub - Woody plants, excluding vines, less
9		than 3 in. DBH and greater than or equal to 3.28 ft (1
10		m) tall.
114		Herb - All herbaceous (non-woody) plants, regardless
W - The	<del>95</del> _ = Total Cover	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 47.5	20% of total cover: 19	Manda di vida Allumado vida a manta than 2 20 ft in
Woody Vine Stratum (Plot size:)		Woody vine – All woody vines greater than 3.28 ft in height.
1,		
2		
3		_
4		- Hydrophytic
5		Vegetation Present? Yes No
	= Total Cover	Present? fes V No
50% of total cover:	20% of total cover:	_
Remarks: (Include photo numbers here or on a separate sh	eet.)	

Depth	cription: (Describe Matrix	to the depth		x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
0-4	1048 4/1	85 -	1.54R 5/8	<u> 15</u> —	_C	<u> </u>		
	oncentration, D=Dep Indicators:	letion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ains.		Pore Lining, M=Matrix.  ors for Problematic Hydric Soils <sup>3</sup> :
Black H Hydroge Stratifie 2 cm Mi Deplete Thick D Sandy M MLR Sandy F	I (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) uck (A10) (LRR N) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) (LA 147, 148) Gleyed Matrix (S4) I Matrix (S6)	[	Dark Surface Polyvalue Be Thin Dark Su Loamy Gleye Depleted Mal Redox Dark S Depleted Dar Redox Depre Iron-Mangane MILRA 130 Umbric Surfa Piedmont Flo Red Parent M	low Surface (S9) d Matrix (F trix (F3)) Surface (F6) k Surface (Ssions (F8) ese Masse: 6) ce (F13) (Modplain So	(MLRA 1 (2) (F7) (F7) (S) (F12) (L (MLRA 13) (ils (F19)	47, 148) _RR N, 6, 122) (MLRA 14	148) Coa (I Piec (I Ven Oth)	m Muck (A10) (MLRA 147) ast Prairie Redox (A16) MLRA 147, 148) dmont Floodplain Soils (F19) MLRA 136, 147) y Shallow Dark Surface (TF12) er (Explain in Remarks) ators of hydrophytic vegetation and and hydrology must be present, as disturbed or problematic.
	Layer (if observed):	L	Red Parent N	naterial (FZ	I) (WILK)	4 127, 147	) unles	ss disturbed of problematic.
Type: <u>G</u>	covel layer		-				Hydric Soil Pi	resent? Yes No
Remarks:								

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region Project/Site: Mastin County Solar City/County: Mastin County Applicant/Owner: Savian Sampling Point: Investigator(s): Skeller, C. Kubel \_\_ Section, Township, Range: A//A Landform (hillslope, terrace, etc.): Hill top Local relief (concave, convex, none): Carrowe Slope (%): 0 Subregion (LRR or MLRA): LRAN Lat: 37,755642 Long: \_\_82,455387 Datum: NAD83(KYFIPS) Soil Map Unit Name: F; F: Fiveblock, Fargoint, Kaymine Soil 30-8090 State, 5709-1 NWI classification: N/A Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_ No \_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: WHand AN Closed depression **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) \_\_\_ Sparsely Vegetated Concave Surface (B8) Surface Water (A1) \_\_ True Aquatic Plants (B14) High Water Table (A2) \_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) Saturation (A3) \_\_\_ Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Moss Trim Lines (B16) \_\_\_ Dry-Season Water Table (C2) Water Marks (B1) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Sediment Deposits (B2) \_\_ Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) \_\_\_ Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Other (Explain in Remarks) Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aguitard (D3) Microtopographic Relief (D4) Water-Stained Leaves (B9) FAC-Neutral Test (D5) Aquatic Fauna (B13) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): Saturation Present? Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks

Least on Alexandra San San	Absolute	Dominant Ir	ndicator	Dominance Test worksheet:	
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	,
	-			That Ale OBE, I AOW, OIT AO.	"
2				Total Number of Dominant Species Across All Strata:	3)
4NA				Percent of Dominant Species That Are OBL, FACW, or FAC:  (A	VB)
6				Prevalence Index worksheet:	
7					
	=	Total Cover		Total % Cover of: Multiply by:	
50% of total cover:	20% of	total cover:_		OBL species x 1 =	
Sapling/Shrub Stratum (Plot size:)				FACW species x 2 =	
1,				FAC species x 3 =	
2				FACU species x 4 =	- 1
3				UPL species x 5 =	
				Column Totals: (A) (	(B)
5. NA					
6				Prevalence Index = B/A =	
7			-	Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
8				2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
F00/ - 11 1 1		Total Cover	9	4 - Morphological Adaptations1 (Provide support	ting
50% of total cover:	20% of	total cover:		data in Remarks or on a separate sheet)	
			-(O. )	Problematic Hydrophytic Vegetation¹ (Explain)	
1. Scirpus Cyberinus	45	<u> </u>	FPW		
2. Lonicera jogonica	15		FACU	11-4:	.
3. Symphiatrichum dumosum	40		FAC	Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.	i
4				Definitions of Four Vegetation Strata:	
5				Definitions of Four Vegetation Strata.	
6				Tree - Woody plants, excluding vines, 3 in. (7.6 cm)	or
				more in diameter at breast height (DBH), regardless	of
7				height.	
8				Sapling/Shrub - Woody plants, excluding vines, les	ss
9				than 3 in. DBH and greater than or equal to 3.28 ft (	1
10				m) tall.	
11				Herb – All herbaceous (non-woody) plants, regardle	ess
	100 =	Total Cover		of size, and woody plants less than 3.28 ft tall.	- 1
50% of total cover: 50 Woody Vine Stratum (Plot size:)	20% of t	otal cover:	20_	Woody vine – All woody vines greater than 3.28 ft in height.	n
1			Ì	roigita	
2.					
3. MA					
3. N/3					
4				Hydrophytic	
5				Vegetation No.	
		Total Cover		Present? Yes No No	
50% of total cover:	20% of t	otal cover:			
Remarks: (Include photo numbers here or on a separate s	heet.)				
					1
					- 1
				*	

Depth	Matrix	to the depth	needed to docum	ment the ii		or confirm	the absence of	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-4	104R 4/1		104R5/8	10	<u>c</u>	<u>M</u>	SCL		
				=					
¹Type: C=Cc	ncentration, D=Dep	eletion RM=R	educed Matrix M	——————————————————————————————————————	Sand Gra	ains	²l ocation: Pl = F	Pore Lining, M=Matrix.	
Hydric Soil		icuon, ravi–ra	eddoed Wattix, Wi	J-Washed	Odrid Ore	allio.		rs for Problematic H	
Black Hi Hydroge Stratified 2 cm Mu Depleted Thick Da Sandy M	ipedon (A2) stic (A3) in Sulfide (A4) Layers (A5) ck (A10) (LRR N) Below Dark Surface rk Surface (A12) ucky Mineral (S1) (L		Dark Surface Polyvalue Be Thin Dark Su Loamy Gleye Depleted Ma Redox Dark Depleted Dar Redox Depre Iron-Mangan	elow Surface urface (S9) ed Matrix (F ttrix (F3) Surface (Fr k Surface essions (F8 ese Masse 6)	(MLRA 1 F2) 6) (F7) 8) es (F12) (I	47, 148) LRR N,	148) Coa:	n Muck (A10) (MLRA 1 st Prairie Redox (A16) /ILRA 147, 148) Imont Floodplain Soils /ILRA 136, 147) / Shallow Dark Surface er (Explain in Remarks	(F19) e (TF12)
	leyed Matrix (S4)		Umbric Surfa		MLRA 13	6, 122)	<sup>3</sup> Indica	tors of hydrophytic veg	getation and
	edox (S5)		Piedmont Flo					nd hydrology must be	
	Matrix (S6)		Red Parent N	Material (F2	21) <b>(MLR</b>	A 127, 147	) unles:	s disturbed or problem	atic.
Type:	ayer (if observed):	-						:2	
Depth (inc			-				Hydric Soil Pro	esent? Yes	No
Remarks:	1103).						Trydite con Th	esciit: 1cs_ <u>v</u>	
		*							

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region Project/Site: Martin County Solar City/County: Martin County Sampling Date: 11/ Applicant/Owner: Savian Sampling Point: LAS Investigator(s): S. Kolky, Caknabel Section, Township, Range: N/A-Landform (hillslope, terrace, etc.): Hillton Local relief (concave, convex, none): None Long: -82.455276 Subregion (LRR or MLRA): LRRN Lat: 37,755695 Datum: NADE3 KYEP Soil Map Unit Name: 11 Fredock, Fargoint, Kayning soils, 30-80% slope, Stony NWI classification: N/A Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_\_ (If no, explain in Remarks.) \_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: pland point associated w/ WeHand AN **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) \_\_ Surface Soil Cracks (B6) \_\_\_ Sparsely Vegetated Concave Surface (B8) Surface Water (A1) \_\_ True Aquatic Plants (B14) High Water Table (A2) \_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) \_\_\_ Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Moss Trim Lines (B16) Saturation (A3) \_\_\_ Dry-Season Water Table (C2) Presence of Reduced Iron (C4) Water Marks (B1) \_\_ Crayfish Burrows (C8) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Other (Explain in Remarks) Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) \_\_\_ Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Field Observations: Depth (inches): Surface Water Present? Water Table Present? No \_\_\_\_ Depth (inches):\_\_\_ Wetland Hydrology Present? Yes \_\_\_\_\_ No\_ Saturation Present? \_\_ No \_\_\_\_ Depth (inches):\_\_\_ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

14 88° 0	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:) 1	% Cover	Species?		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2				Total Number of Descipent
3				Total Number of Dominant Species Across All Strata: (B)
4. NA				Books of Books and Consider
5		-		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7		= Total Cov		Total % Cover of:Multiply by:
50% of total cover:				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15M)		10101 00101.		FACW species x 2 =
1. Eleanne umbellata	95		VPL	FAC species x 3 =
. ()				FACU species x 4 =
2				UPL species x 5 =
3				Column Totals: (A) (B)
4			_	( )
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
(43		= Total Cove		4 - Morphological Adaptations¹ (Provide supporting
50% of total cover: 47,4	20% of	total cover:	_/4	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5M)	4		V.	Problematic Hydrophytic Vegetation¹ (Explain)
1. Acer regardo			FAL	= ' ' ' ' ' ' '
2. Viola socaria	_5_		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Lonicara japanica	10		FACU	be present, unless disturbed or problematic.
4. Rosa multiflora			FACU	Definitions of Four Vegetation Strata:
5. Persecania pennsylvanica	<u> </u>		FACW	
6. Archyranthes japonica	15		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				Continue (Charles ) Manual and a second discourse land
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	42	= Total Cove	er .	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 21	20% of	total cover:	8.4	
Woody Vine Stratum (Plot size:)				Woody vine – All woody vines greater than 3.28 ft in height.
1				
2				
3				
4			-	
5			-	Hydrophytic Vegetation
		Total Cove		Present? Yes No
50% of total cover:				
Remarks: (Include photo numbers here or on a separate s				

Profile Desc	cription: (Describe	to the depti	needed to docum	nent the	indicator	or confirm	the absence	e of indicators.)
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc2_	<u>Texture</u>	Remarks
0-4	104841	90	104R 5/8	10	_ <u></u>	M	SCL	-
					(c)		-	** <del></del>
		<del>-</del> )						·
					-			si <del></del> :
						-		
>======		i .					-	
					-	÷	-	9 <del></del>
				-	-			·
-								···
								<u> </u>
¹Type: C=C	oncentration, D=Dep	oletion. RM=	Reduced Matrix, MS	S=Maske	d Sand Gr	ains.	<sup>2</sup> Location: F	PL≂Pore Lining, M=Matrix.
Hydric Soil		olotion, run				GATTALLES	Indic	cators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface	(S7)			_ 2	2 cm Muck (A10) (MLRA 147)
_	pipedon (A2)		Polyvalue Be		ace (S8) <b>(</b> N	ILRA 147,		Coast Prairie Redox (A16)
_	istic (A3)		Thin Dark Su	ırface (S9	) (MLRA	147, 148)		(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		(F2)		۱	Piedmont Floodplain Soils (F19)
Stratifie	d Layers (A5)		Depleted Ma					(MLRA 136, 147)
_	uck (A10) <b>(LRR N)</b>		X Redox Dark					Very Shallow Dark Surface (TF12)
	d Below Dark Surfac	ce (A11)	Depleted Da				(	Other (Explain in Remarks)
	ark Surface (A12)	u DD N	Redox Depre			I DD N		
	Mucky Mineral (S1) (	LKK N,	Iron-Mangan MLRA 13		Ses (F 12) (	LKK N,		
1	<b>A 147, 148)</b> Gleyed Matrix (S4)		Umbric Surfa		(MLRA 13	36, 122)	³lne	dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
1	d Matrix (S6)		Red Parent I					nless disturbed or problematic.
	Layer (if observed)	):						
	Crair layer							
	nches): 4						Hydric Soi	il Present? Yes No
Remarks:	1011007.							
Remarks.								
1								

Project/Site: Martin Colly Solar City/County: Martin County	Sampling Date: (1) (2)
Applicant/Owner: State: KY	Sampling Point: (JAS -76
Investigator(s): S. Kelley, C. Krishel Section, Township, Range: NA	
Landform (hillslope, terrace, etc.): Hilltop Local relief (concave, convex, none): Concave	Slope (%): 0, 5
Subregion (LRR or MLRA): <u>LRRN</u> Lat: <u>37.75 8387</u> Long: <u>-82,451738</u>	Datum: NAP83(KYF
Soil Map Unit Name: FiF: Fiveblock, Fairpolat, Kaymine Soil 30-8010 Store, Stony NWI classifica	tion: WA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Re	
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" pr	esent? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects,	
Hydrophytic Vegetation Present?  Yes No Is the Sampled Area	
	No
Wetland Hydrology Present? Yes No	_ NO
Remarks:	
Wetland AO	
	PEM
Closed depression in open field	PENC
HYDROLOGY	
Wetland Hydrology Indicators: Secondary Indicate	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil C	racks (B6)
Surface Water (A1)  True Aquatic Plants (B14)  Sparsely Vege	etated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Drainage Patti	erns (B10)
Saturation (A3)  Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lin	es (B16)
	/ater Table (C2)
Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)  Crayfish Burro	
	ible on Aerial Imagery (C9)
	essed Plants (D1)
Iron Deposits (B5) Geomorphic P	
Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Shallow Aquita  Microtopograp	hic Relief (D4)
Aquatic Fauna (B13)	
Field Observations:	GG( (D 0)
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present:	? Yes / No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	
Remarks:	
92	

Sampling Point: 13A5-76

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Species That Are OBL FACW or FAC:
1		That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant 2
3		Species Across All Strata: (B)
***		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: (A/B)
6,		Prevalence Index worksheet:
7,		Total % Cover of: Multiply by:
EOO/ of total powers	= Total Cover	OBL species x 1 =
	20% of total cover:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)		FAC species x 3 =
1		FACU species x 4 =
2		UPL species x 5 =
3		Column Totals: (A) (B)
5NA		(5)
		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7,		1 - Rapid Test for Hydrophytic Vegetation
8,		2 - Dominance Test is >50%
9		3 - Prevalence Index is ≤3.0 <sup>1</sup>
EDD/ of botal govern	= Total Cover	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:	20% or total cover	data in Remarks or on a separate sheet)
1 Symphisteidum dimosom	40 / FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Juneus tenvis	20 / FAC	
		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Andropogan Vity nicus	15 FAC	be present, unless disturbed or problematic.
4. Schange pumila 5. JUNIOS CEGUSUS	10 FACW	Definitions of Four Vegetation Strata:
5. JUNIOS EFEUSUS		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Echinochlaa arus-galli		more in diameter at breast height (DBH), regardless of
7,		height.
8		Sapling/Shrub - Woody plants, excluding vines, less
9		than 3 in, DBH and greater than or equal to 3,28 ft (1 m) tall.
10		my tan
11	IM THIS	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: <b>50</b>	= Total Cover 20% of total cover: <b>2◊</b>	or size, and woody plants less than 3.20 it tall.
Woody Vine Stratum (Plot size:)		Woody vine – All woody vines greater than 3.28 ft in
1.		height.
2.		
3. N/A		
4		
5		Hydrophytic Vegetation
***************************************	= Total Cover	Present? Yes No
50% of total cover:		•
Remarks: (Include photo numbers here or on a separate s	heet.)	
·	·	

Profile Desc	cription: (Describe t	o the depth	needed to docum	nent the ir	ndicator o	or confirm	the absence	of indicators.)
Depth	Matrix		Redo	x Features	8			
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	_Loc <sup>2</sup>	<u>Texture</u>	Remarks
0-4	1048 4/1	95 1	64R 5/8	5_		~	SCL	
	, , ,							
S								
								- 36
10 <u></u>								
								·
							-	·
							-	
¹Typo: C=C	oncentration, D=Deple	otion DM-D	aduced Matrix MS	-Macked	Sand Gra	inc	21 ocation: D	L=Pore Lining, M=Matrix.
Hydric Soil		elion, Kivi–K	educed Matrix, Mc	-Waskeu	Sanu Gra	1115.		ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(97)			1 7	cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		- (S8) /M	I RA 147		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				'*"    '	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			,,	L ₽	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		,			(MLRA 136, 147)
	ick (A10) (LRR N)	į.	Redox Dark S		6)		ΠV	ery Shallow Dark Surface (TF12)
Depleted	d Below Dark Surface	(A11)	Depleted Dar	k Surface	(F7)		H	Other (Explain in Remarks)
	ark Surface (A12)		X Redox Depre	CONTRACTOR OF STREET	1054			
	lucky Mineral (S1) <b>(L</b> l	RR N,	Iron-Mangane		es (F12) <b>(L</b>	.RR N,		
11 1	147, 148)		MLRA 136				3.	
	Gleyed Matrix (S4)	1	Umbric Surfa	15 151		120 52		licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo				8	etland hydrology must be present.
	Matrix (S6)  Layer (if observed):		Red Parent N	iateriai (FZ	ZI) (IVILICA	127, 147	) un	less disturbed or problematic.
	carel later							/
			-				l	D 10 V
Depth (in	cnes):		_				Hydric Soil	Present? Yes No
Remarks:								
		$\wedge$	1	. 1			- 1	
		U	sol spoil	im	ierwan	en in	Soil	

Project/Site: Martin County Solor City/C Applicant/Owner: Savion	ounty: Martin County Sampling Date: 11/6/20  State: KY Sampling Point: WA5-77
Investigator(s): 5, Kelley, C, Knobel Section	
Landform (hillslope, terrace, etc.): Hilltop Local reli	
Subregion (LRR or MLRA): Lat: Lat:	Long:82.45/745 Datum: NAv83(14)
Soil Map Unit Name: Fif: Five block, Fairpoint, Kaymine soil, 3	3-20903016 Stony NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? You	es No (If no, explain in Remarks.)
Are Vegetation, Soil or Hydrology significantly disturb	ped? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No	In the Commission Asses
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No
Wetland Hydrology Present? Yes No	Willing a Wedgard.
Remarks:	
Upland point Asso	cited w/ Wefland AO
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	
High Water Table (A2)  Hydrogen Sulfide Odd	
	s on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced	
Sediment Deposits (B2)  Recent Iron Reduction	
Drift Deposits (B3)  Thin Muck Surface (C	
Algal Mat or Crust (B4)  Iron Deposits (B5)  Other (Explain in Rem	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous pre	vious inspections) if available
Describe Recorded Data (Stream gauge, monitoring well, aerial priotos, previous	ious inspections), ii available.
Remarks	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30m )	% Cover	Species?	Status	Number of Dominant Species
1. Juniperus Virginiuma	10	./	FAW	That Are OBL, FACW, or FAC
2				
		:	-	Total Number of Dominant Species Across All Strata: (B)
3,				Species Across All Strata: (B)
4			-	Percent of Dominant Species
5				That Are OBL, FACW, or FAC:(A/B)
6,				
7				Prevalence Index worksheet:
3	10	= Total Cov	er	Total % Cover of:Multiply by:
50% of total cover: 5				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15M )		total cover.		FACW species x 2 =
		-	4201	FAC species x 3 =
1. Eleagnus umbelpta	15		OPL	
2	·			FACU species x 4 =
3				UPL species x 5 =
4,				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6		-	e <del></del> :	Hydrophytic Vegetation Indicators:
7			.——	1 - Rapid Test for Hydrophytic Vegetation
8,				2 - Dominance Test is >50%
9.				The state of the s
	15	= Total Cov	er	3 - Prevalence Index is ≤3.01
50% of total cover: _7.\$				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5M)	2070 01	total cover.		data in Remarks or on a separate sheet)
			-1.	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Lespedeza cuneata	(0)		FALU	
2 Setario pumila	15		FAL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Solidoan canadensis	15		FAIU	be present, unless disturbed or problematic.
4. Symphistichum dumusum			FAL	
1 1				Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in, DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11.		-		
1135	100			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3,28 ft tall.
FOO/ of total powers		= Total Cov total cover:		of size, and woody plants less than 5.26 it tall.
50% of total cover:	20% 01	total cover.		Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1,				
2				
3. N/A.				
4.			-	
Sit*				Hydrophytic
5.				Vegetation Present? Yes No
		= Total Cov		100 100
50% of total cover:	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Des	cription: (Describe	to the depth	needed to docu	ment the ir	ndicator	or confirm	the absenc	e of indicators.)
Depth	Matrix			x Features	1	. 3		
(inches)	Color (moist)	95	Color (moist)	%	Type'	_Loc²	Texture	Remarks
0-3	104R3/2	75	104R5/8	5	<u>C</u>	M	SCL	
							-	· ()
D-								· ·
								**
-	-				-			***
-	•							*·· <del>·</del>
								17
-	1-							
	oncentration, D=Dep	letion, RM≃F	Reduced Matrix, M	S=Masked	Sand Gra	ins.		PL=Pore Lining, M=Matrix.
Hydric Soil			П					cators for Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1) pipedon (A2)		Dark Surface Polyvalue Be		a (99) /B/I	I DA 147		2 cm Muck (A10) <b>(MLRA 147)</b> Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				14°)	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, , , , , ,		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma					(MLRA 136, 147)
1 1	uck (A10) (LRR N)	(8.1.1)	Redox Dark					Very Shallow Dark Surface (TF12)
	d Below Dark Surface ark Surface (A12)	e (A11)	Depleted Da Redox Depre					Other (Explain in Remarks)
	Mucky Mineral (S1) (L	.RR N,	Iron-Mangan			.RR N,		
	A 147, 148)	,	MLRA 13		( , , , ,			
	Gleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6) Layer (if observed):		Red Parent N	nateriai (FZ	(IVILRA	127, 147	) ur	nless disturbed or problematic.
	irwel layer							
	ches): 3						Hydric Soi	Present? Yes No
Remarks:	31100)1						7.7	
Tromaino.								
		^					s.	*
		Coal .	spoil into	257. 10.10	n in	Enil		189
		,	342.0	- Name	* * * * * * * * * * * * * * * * * * * *			
	1" Shart		nceting Fo	a india	cator	/ Need	(411)	
	1 0 1 10 1 1					C.		

WEILAND DETERMINATION DATA FORM	M – Eastern Mountains and Piedmont Region
Project/Site: Martin Coupy Sola? City	//County: Martin County Sampling Date: 11/6/20
Applicant/Owner: Sovion	State: K Sampling Point: WAS-78
Investigator(s): S. KClay, C. Knobe Sec	
Landform (hillslope, terrace, etc.): Hilltop Local r	relief (concave, convex, none): (ancare Slope (%): U. 5
Subregion (LRR or MLRA): Lat: Lat:	
Soil Map Unit Name: FiF: Fiveblock, Fairpoint, Kaymine so	
Are climatic / hydrologic conditions on the site typical for this time of year?	, , , , ,
Are Vegetation, Soil, or Hydrology significantly dist	
Are Vegetation, Soil, or Hydrology naturally proble	
	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes No  Yes No	Is the Sampled Area within a Wetland? Yes No
Closed depression in open Field	AP PEM
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants	s (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide C	Odor (C1) Drainage Patterns (B10)
	eres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduc	ed Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduct	tion in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface	(C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Re	emarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? YesNo Depth (inches):	<del></del>   A
Saturation Present? Yes No Depth (inches): O (includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:
Remarks:	
The contract	
and the second s	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	a)
9	
*3	
**	

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)	- This is the same of the	Species?		Number of Dominant Species
1,				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4. N A				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				That Are OBL, FACW, of FAC (A/B)
7				Prevalence Index worksheet:
(-)				Total % Cover of: Multiply by:
50% of total cover:		= Total Cov		OBL species x 1 =
The Country of the Co	20% 01	lotal cover.		FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
1,				
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5. NA				Prevalence Index = B/A =
6				
7				Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
9				2 - Dominance Test is >50%
		Total Carr		3 - Prevalence Index is ≤3.0¹
50% of total cover:				4 - Morphological Adaptations¹ (Provide supporting
Herb Stratum (Plot size: 5M )	20 % 01	total cover.		data in Remarks or on a separate sheet)
	11	/	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
1. Sciepus cyperins	(0)			
2. Bidens Frondosa	20	-	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Arahowan hispidis			FAC	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				
110	110 =	Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 55		total cover:		,
	20 % 01	iolai cover		Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1			\ <del></del>	
3. NA				
3				
4				Hydrophytic
5				Vegetation
	=	Total Cove	er	Present? Yes No
50% of total cover:	20% of	total cover:_		
Remarks: (Include photo numbers here or on a separate si	heet.)			
				1

Depth	Matrix			ox Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc2	<u>Texture</u>	Remarks
5-5	104841	<b>- 40</b> 0°	57R 5/8	<u> 16</u>	<u></u>	<u>M</u>		
	oncentration, D=Dep	oletion, RM=	Reduced Matrix, M	 S=Masked		ains.		re Lining, M=Matrix.
_	Indicators:							for Problematic Hydric Soils <sup>3</sup> :
Histoso	(A) (E)		Dark Surfac		(00)			Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue B					Prairie Redox (A16)
	istic (A3) en Sulfide (A4)		Thin Dark S Loamy Gley			47, 148)	1.5	.RA 147, 148) ont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Ma		12)			RA 136, 147)
	uck (A10) (LRR N)		Redox Dark		6)			Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Da					(Explain in Remarks)
	ark Surface (A12)	, ,	X Redox Depr		0.00			, ,
_ Sandy N	Mucky Mineral (S1) (I A 147, 148)	LRR N,	Iron-Mangar		es (F12) <b>(L</b>	RR N,		
	Gleyed Matrix (S4)		Umbric Surf					rs of hydrophytic vegetation and
	Redox (S5)		Piedmont FI					hydrology must be present,
	d Matrix (S6)		Red Parent	Material (F	21) <b>(MLR</b> /	A 127, 147	) unless	disturbed or problematic.
Restrictive Type: 6	Layer (if observed):							
Depth (in			_ *				Hydric Soil Pres	sent? Yes No
Remarks:								
								£ 60

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

Project/Site: Mw-X: \ County \	Solar	_ City/County: _Martin C	iunty	Sampling Date: 11/6/20
Applicant/Owner: Savian			State: KY	Sampling Point: WAC-79
Investigator(s): 5, Kelley, C, Km	bel	_ Section, Township, Range:	NA	
Landform (hillslope, terrace, etc.):		Local relief (concave, convex,	/	Slope (%): 0, ケ
Subregion (LRR or MLRA): LAAN		045 Long:		Datum: NAD83(K-
Soil Map Unit Name: FIF Fiveble				
Are climatic / hydrologic conditions on				
Are Vegetation, Soil, or			nal Circumstances" p	
Are Vegetation, Soil, or			d, explain any answe	
SUMMARY OF FINDINGS – A				
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No	Is the Sampled Are within a Wetland?	a Yes	No
Remarks:				
LIVERGLOCA	Upland point	associated w/	Wettand A	P & MQ
HYDROLOGY				
Wetland Hydrology Indicators:			( PODE COLUMN TORREST	tors (minimum of two required)
Primary Indicators (minimum of one is			Surface Soil	' '
<ul><li>Surface Water (A1)</li><li>High Water Table (A2)</li></ul>	True Aquatic	llfide Odor (C1)	Sparsely veg	petated Concave Surface (B8)
Saturation (A3)		zospheres on Living Roots (C:		3 2
Water Marks (B1)		Reduced Iron (C4)		Water Table (C2)
Sediment Deposits (B2)		Reduction in Tilled Soils (C6)	Crayfish Burr	0 23
Drift Deposits (B3)	Thin Muck Se	urface (C7)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain	in in Remarks)	Stunted or St	ressed Plants (D1)
Iron Deposits (B5)			Geomorphic	
Inundation Visible on Aerial Imag	ery (B7)		Shallow Aqui	
Water-Stained Leaves (B9) Aquatic Fauna (B13)			Microtopogra	phic Relief (D4)
Field Observations:			FAC-Neutral	Test (D3)
	No Depth (inche	ee).		
	No Depth (inche			
Saturation Present? Yes_			d Hydrology Presen	t? Yes No
(includes capillary fringe)				
Describe Recorded Data (stream gau	ge, monitoring well, aerial pho	otos, previous inspections), if a	vailable:	
Remarks:				
				Е
				ē =
				e
				ē

VEGETATION (Four Strata) - Ose scientific in	airies oi	piants.		Sampling Point. Ujto 11
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
				That Are OBL, FACW, or FAC: (A)
1,				That Ale Obt., I AOW, OF AO.
2,				Total Number of Dominant
3				Species Across All Strata: (B)
NIP				(-/
**				Percent of Dominant Species
5,				That Are OBL, FACW, or FAC: (A/B)
6				
				Prevalence Index worksheet:
7			-	Total % Cover of: Multiply by:
	$\overline{}$	= Total Cove		N1
50% of total cover:	20% of	total cover:		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15M)				FACW species x 2 =
Capital Call Ac	Qn.		UPL	FAC species x 3 =
1. Eleagnis imbellata	70		VYL	
20				FACU species x 4 =
3				UPL species x 5 =
				Column Totals: (A) (B)
4		·		Coldinii Totals (A) (B)
5				December and Index - D/A -
6				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				
	-			2 - Dominance Test is >50%
9	90	::: <del></del> :	<del></del>	3 - Prevalence Index is ≤3.01
2.74		= Total Cover	er is	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:	20% of	total cover:	10	
Herb Stratum (Plot size: 5M)				data in Remarks or on a separate sheet)
	1.4		FAW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Solidago canadousis	10			
2. Lankara japanica	10		FACU	
3. Viola geraria	15		FAW	¹Indicators of hydric soil and wetland hydrology must
	<del>- 42</del>			be present, unless disturbed or problematic.
4. Toxicodendron radicans			FAC	Definitions of Four Vegetation Strata:
5. ROSO MUKFINE	_10		FACU	
6. Plantago lanceolata	2		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
C)			THOS	more in diameter at breast height (DBH), regardless of
7	-			height.
8				
				Sapling/Shrub – Woody plants, excluding vines, less
9		. <del></del>		than 3 in. DBH and greater than or equal to 3.28 ft (1
10,	-			m) tall.
11,				Herb – All herbaceous (non-woody) plants, regardless
	53	= Total Cove	·	of size, and woody plants less than 3.28 ft tall.
500/ 51/1	300	total cover:	1 A / 3	or size, and woody plants less than 5.25 it tall.
50% of total cover: 26	20% of	total cover:_	10.9	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30m)		,		height.
1. Loniccron joponica	4	. /	EACU	
0 (	<del></del>		PITO	
2		·		
3				
4				
The state of the s				Hydrophytic
5				Vegetation
NOT THE	5	= Total Cove	er	Present? Yes No
50% of total cover: 2.5	20% of	total cover:		
Demarks: (Include whate numbers here as an a constate a				
Remarks: (Include photo numbers here or on a separate s	ileet.)			

Profile Description: (Describe to the o			or confirm	the absence of	indicators.)	
Depth Matrix (inches) Color (moist) %	Color (moist)		Loc <sup>2</sup>	Toyture	Remarks	
		<u> Type</u>	LOC	<u>Texture</u>	Remarks	
0-4 10184/2 100	<u> </u>			Sil _		
S				-		
	- <del> </del>					
<sup>1</sup> Type: C=Concentration, D=Depletion, F	M=Reduced Matrix, MS=Ma	sked Sand Gr	ains.	<sup>2</sup> Location: PL=I	Pore Lining, M=Matrix	ζ.
Hydric Soil Indicators:				Indicato	rs for Problematic H	lydric Soils³:
Histosol (A1)	Dark Surface (S7)			2 cm	n Muck (A10) (MLRA	147)
Histic Epipedon (A2)	Polyvalue Below S		ILRA 147.		st Prairie Redox (A16	
Black Histic (A3)	Thin Dark Surface				/ILRA 147, 148)	,
Hydrogen Sulfide (A4)	Loamy Gleyed Ma				mont Floodplain Soil	s (F19)
Stratified Layers (A5)	Depleted Matrix (F				/ILRA 136, 147)	- (· ···)
2 cm Muck (A10) (LRR N)	Redox Dark Surfa			•	Shallow Dark Surface	e (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Su				er (Explain in Remark	
Thick Dark Surface (A12)	Redox Depression			0	or (Explain in Noman	٠,
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese N		RRN			
MLRA 147, 148)	MLRA 136)	103363 (1 12) (	LIXIX IV,			
Sandy Gleyed Matrix (S4)	Umbric Surface (F	13) /MI DA 12	6 122\	3Indica	tors of hydrophytic ve	actation and
Sandy Gleyed Matrix (34)	Piedmont Floodpla					
					nd hydrology must be s disturbed or probler	
Stripped Matrix (S6)  Restrictive Layer (if observed):	Red Parent Mater	iai (FZI) (IVILA	A 127, 147	) unles	s disturbed or probler	nauc.
Type: Gravel layer						
Depth (inches):				Hydric Soil Pr	esent? Yes	_ No <u>\</u>
Remarks:				•		
9						

#### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region \_\_\_\_\_ City/County: Martin County Project/Site: Martin County Solar Applicant/Owner: 5ω/01 Investigator(s): 5-Kelley, C. Knabel \_\_\_\_ Section, Township, Range: NA Landform (hillslope, terrace, etc.): Hill too Local relief (concave, convex, none): Carcare Subregion (LRR or MLRA): LRRV Lat: 57,755151 Long: -82,453117 Soil Map Unit Name: FIE: Five block, Fair Doint, Lymine Soil, 30-80703/190, Story NWI classification: N/A Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Wetland AQ **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) \_\_\_ Sparsely Vegetated Concave Surface (B8) \_\_\_ True Aquatic Plants (B14) Surface Water (A1) High Water Table (A2) Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) \_\_ Moss Trim Lines (B16) \_\_\_ Dry-Season Water Table (C2) Water Marks (B1) Presence of Reduced Iron (C4) \_ Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Algal Mat or Crust (B4) Other (Explain in Remarks) \_\_\_ Stunted or Stressed Plants (D1) Geomorphic Position (D2) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) \_ Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Field Observations: Surface Water Present? No Depth (inches): Water Table Present? No \_\_\_\_\_ Depth (inches):\_ Saturation Present? No \_\_\_\_\_ Depth (inches): Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30M)	% Cover Species? Status	Number of Dominant Species
1. Platanos oceidentalis	10 FAGE	That Are OBL, FACW, or FAC: (A)
2		T. IN I DO
3		Total Number of Dominant Species Across All Strata:  (B)
		Species Across Air Strata.
4,		Percent of Dominant Species
5		That Are OBL, FACW, or FAC:
6		Prevalence Index worksheet:
7		
	= Total Cover	Total % Cover of: Multiply by:
50% of total cover:	20% of total cover:	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15M )		FACW species x 2 =
1. Eleagnus umbellata	5 VUPL	FAC species x 3 =
. 0		FACU species x 4 =
2		UPL species x 5 =
3		
4		Column Totals: (A) (B)
5		Prevalence Index = B/A =
6		
7		Hydrophytic Vegetation Indicators:
8		1 - Rapid Test for Hydrophytic Vegetation
9		2 - Dominance Test is >50%
9		3 - Prevalence Index is ≤3.0 <sup>1</sup>
FOOY of total powers	= Total Cover	4 - Morphological Adaptations¹ (Provide supporting
	20% of total cover:	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5 M )	10-	Problematic Hydrophytic Vegetation¹ (Explain)
1. Scirpus cuperinus 2. B. Lens Floridosa	45 FAW	
2.13, 2015 + Mondosa	30 FACW	Indicators of hydric soil and wetland hydrology must
3. Caret frankii	5 OBL	be present, unless disturbed or problematic.
4. Arthraxon hispidis	20 FAC	Definitions of Four Vegetation Strata:
5		Definitions of Four Vegetation Strata:
6		Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
		more in diameter at breast height (DBH), regardless of
7,		height.
8		Sapling/Shrub - Woody plants, excluding vines, less
9		than 3 in. DBH and greater than or equal to 3.28 ft (1
10		m) tall.
11,		Herb – All herbaceous (non-woody) plants, regardless
	/0/) = Total Cover	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u></u>	20% of total cover:_ & O	Manda vine All woods vines are to then 3.29 ft in
Woody Vine Stratum (Plot size:)		Woody vine – All woody vines greater than 3:28 ft in height.
1,		
2		
3 NA		
μ	*	
9		Hydrophytic
5		Vegetation
	= Total Cover	Present? Yes No
50% of total cover:	20% of total cover:	
Remarks: (Include photo numbers here or on a separate s	heet.)	
	75	
	*	

Depth	Matrix		pth needed to docu Redo	x Features				Na/
(inches)	Color (moist)	%	Color (moist)	%	_Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-周3	1648411	90	164R5/B	(0)	C	M	SIC	
2-5	10784/1	60	104R5/8	15		M	5(1:	
<del>, ,</del>			10415-78				500	
	10186/4	25						
	1,		-					
			-					
			-	-	-			
				0.44			21 tion DI	
	oncentration, D=Dep	pletion, RN	1=Reduced Matrix, M	S=Masked	Sand Gra	ains.		ore Lining, M=Matrix. s for Problematic Hydric Soils <sup>3</sup> :
			Dada Confact	- (07)				
Histosol	281 /5		Dark Surface		oo (CO) /M	I DA 147		Muck (A10) (MLRA 147)
	pipedon (A2) istic (A3)		Polyvalue Be Thin Dark Se					t Prairie Redox (A16) <b>LRA 147, 148)</b>
	en Sulfide (A4)		Loamy Gley			77, 170)		nont Floodplain Soils (F19)
	d Layers (A5)		Loanly Gley		_,			LRA 136, 147)
	uck (A10) (LRR N)		Redox Dark		6)		457	Shallow Dark Surface (TF12)
	d Below Dark Surfac	ce (A11)	Depleted Da					r (Explain in Remarks)
Thick Da	ark Surface (A12)		★ Redox Depres	essions (F8	3)			
Sandy M	Mucky Mineral (S1) (	LRR N,	Iron-Mangar	ese Masse	es (F12) (L	RR N,		*
	A 147, 148)		MLRA 13					
	Sleyed Matrix (S4)		Umbric Surfa					ors of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					d hydrology must be present,
	Matrix (S6)		Red Parent I	Material (F	21) <b>(MLR</b> /	A 127, 147	7) unless	disturbed or problematic.
	rave (if observed)	:					1	
Type: G	_							
Depth (inc	ches):						Hydric Soil Pre	esent? Yes V No
Remarks:								
								. * /
	-							
								•

WETLAND DETERMINATION DATA			1 /
Project/Site: Martin County Solar	_ City/County: Martin Coun	14	Sampling Date: 1/6/20
Applicant/Owner: Sex134		State: KY	Sampling Point: WAS -81
Investigator(s): 5. Kelley, C. Krakel			
Landform (hillslope, terrace, etc.): Readside degression			Slope (%): 0,5
Subregion (LRR or MLRA): LRRN Lat: 37,74		A CONTRACTOR OF THE CONTRACTOR	
Soil Map Unit Name: File: Fiveldock, Faircoint, Kaymin Are climatic / hydrologic conditions on the site typical for this time			
Are Vegetation, Soil, or Hydrology signific			
Are Vegetation, Soil, or Hydrology natural		plain any answer	
SUMMARY OF FINDINGS – Attach site map show	ing sampling point location	ns, transects,	important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?  Remarks:  Yes No No	Is the Sampled Area within a Wetland?	Yes	
Robasiae diteh			
	1 A.O.		
Wetto	nd AB		-
			PEM
HYDROLOGY			
Wetland Hydrology Indicators:	S	Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that ar	oly)	_ Surface Soil (	Cracks (B6)
Surface Water (A1) True Aqua	c Plants (B14)	Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2) Hydrogen	Sulfide Odor (C1)	Drainage Pati	terns (B10)
Saturation (A3) Oxidized F	nizospheres on Living Roots (C3)	Moss Trim Lir	nes (B16)
Water Marks (B1) Presence	f Reduced Iron (C4)	Dry-Season V	Vater Table (C2)
Sediment Deposits (B2) Recent Iro	Reduction in Tilled Soils (C6)	_ Crayfish Burr	ows (C8)
Drift Deposits (B3) Thin Muck	Surface (C7)	_ Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Ex	ain in Remarks)	_ Stunted or Str	ressed Plants (D1)
Iron Deposits (B5)	4	Geomorphic I	Position (D2)
Inundation Visible on Aerial Imagery (B7)	_	_ Shallow Aquit	ard (D3)
Water-Stained Leaves (B9)	_		phic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)
Field Observations:			
Surface Water Present? Yes No Depth (in	nes): <u>O</u>		8
Water Table Present? Yes No Depth (in	nes):		
Saturation Present? Yes No Depth (in	nes): Wetland Hyd	drology Present	? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial)	notos, previous inspections), if availa	able:	
gargo, managara	in the second se		
Remarks:			
ž.			
			3
*			
			1

Self and but		Dominant		Dominance Test worksho	et:	
Tree Stratum (Plot size:) 1	% Cover			Number of Dominant Spec That Are OBL, FACW, or F		(A)
2				Total Number of Dominant Species Across All Strata:	3	(B)
3. 4. NA 5.			_	Percent of Dominant Speci That Are OBL, FACW, or F	ies AC:	(A/B)
6				Prevalence Index worksh	eet.	
7				Total % Cover of:		v bv.
50% -51 1 1		Total Cov		OBL species		
50% of total cover:	20% of	total cover:		FACW species		
Sapling/Shrub Stratum (Plot size:)				FAC species		
1			-	FACU species		
2						
3				UPL species		
4. <u>µ</u> /k				Column Totals:	(A)	(B)
5			(-	Prevalence Index = I	B/A =	
6				Hydrophytic Vegetation I		
7				1 - Rapid Test for Hyd		ation
8				2 - Dominance Test is		ation
9						
× ×	=	Total Cov	er	3 - Prevalence Index is		
50% of total cover:	20% of t	total cover:		4 - Morphological Adap		
Herb Stratum (Plot size: 5m )				data in Remarks or		
1. Typha angustitolia	15		OBL	Problematic Hydrophy	tic Vegetation'	(Explain)
2. Juneus effusis			FALW		20	
3. Juneos tenvis	30	1	FAL	Indicators of hydric soil an		
4. Symphia trichem dumasuka	10		FAC	be present, unless disturbe	870	ic.
5. Arthrayon hispidis	20		FAC	Definitions of Four Veget	ation Strata:	
		~	FIC _	Tree - Woody plants, exclu	uding vines. 3 i	n. (7.6 cm) or
6				more in diameter at breast	height (DBH),	regardless of
7				height.		
8				Sapling/Shrub - Woody p	lants, excluding	yines, less
9				than 3 in. DBH and greater	than or equal	to 3.28 ft (1
10				m) tall.		
11				Herb - All herbaceous (no	n-woody) plant	s, regardless
1.7		Total Cov		of size, and woody plants le	ess than 3.28 f	t tall.
50% of total cover: 47.  Woody Vine Stratum (Plot size:)	5 20% of t	total cover:		Woody vine – All woody vineight.	ines greater tha	an 3.28 ft in
H						
2						
3NA						
4				Hydrophytic		
5				Vegetation	/	
**************************************	=	Total Cov	er	Present? Yes	No	
50% of total cover:	20% of t	total cover:			2	
Remarks: (Include photo numbers here or on a separate	sheet.)			,		

	Matrix	- 174	Re	dox Features	3					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-6	10 YR 4/1	93	104R 5/8		<u> </u>	M	SIC			
			1				=======================================			
				-:		_				
					W 17					
				-						
			-	- ,						
-	71 3	V To Table						V 2007 Y	ra mana Metour	
Type: C=Con tydric Soil Inc		oletion, RM=	Reduced Matrix, I	MS=Masked	Sand Grai	ns.	<sup>2</sup> Location: PL=	Pore Lining, I rs for Proble		rio Calla <sup>3</sup> :
-			Dork Curfo	00 (07)					_	
Histosol (A Histic Epip			Dark Surfa	ce (37) Below Surfac	M۱ (S2) م	<b>PA 147</b>		n Muck (A10) st Prairie Red	.7/	"
Black Histi				Surface (S9)				ILRA 147, 14		
	Sulfide (A4)			yed Matrix (I		., ,		mont Floodp		F19)
	_ayers (A5)		X Depleted M		,			ILRA 136, 14		,
_ 2 cm Muck	k (A10) (LRR N)		Redox Dar	k Surface (F	6)			Shallow Dar		TF12)
	Below Dark Surfac	e (A11)		ark Surface			Othe	er (Explain in	Remarks)	
	Surface (A12)			ressions (F8						
	cky Mineral (S1) (I	LRR N,		anese Masse	es (F12) <b>(</b> Ll	RR N,				
	147, 148)		MLRA 1	136) face (F13) (I	MI DA 126	422)	3 Indian	tors of hydro	nhudia vasa	tation and
Sandy Gle Sandy Red	eyed Matrix (S4)			loodplain S				nd hydrology		
Stripped M				t Material (F				s disturbed o		
19th 125 hard	yer (if observed)				,,					0
Type: Ga	avel layer									
							1	V-	s /	No
Depth (inch	es): <u>(</u>						Hydric Soil Pr	esent? Te		
	es): <u>(</u> ,						Hydric Soil Pr	esent? Te		
	es): <u>(</u>	7	1				Hydric Soil Pr	esent? re		
	es): <u>(</u>	V					Hydric Soil Pr	esent? Ye		
	es): <u>(</u> ,	V					Hydric Soil Pr	esent? Ye		
	es): <u>(</u> ,	7					Hydric Soil Pr	esent? Ye		8
	es): <u>(</u> ,	7					Hydric Soil Pr	esent? Ye		tr.
	es): <u>(</u>	Y			5		Hydric Soil Pr	esent? Ye		tr
	es): <u>(</u>	V Isk			5		Hydric Soil Pr	esent? Ye		tr
	es): <u>(</u> ,	V A			5		Hydric Soil Pr	esent? Ye		v
	es): <u>(</u> ,	v e			240		Hydric Soil Pr	esent? Ye		*
		y is			59					*
		Y is			5) 282	8	Hydric Soil Pr			v
		y Dav			590					v
		y ex			20	8				**
		7			29	8				
					29	*				
					29					*
					59 384					*
Depth (inch					5) 323	8				**
		V e				5				**
										**

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region Project/Site: Markin County Solor City/County: Martin County \_\_ Sampling Date: 1/16/20 Applicant/Owner: \_Savian Sampling Point: WAS-82 Investigator(s): 5-Kellet, C. Knahel Section, Township, Range: NA Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2 Subregion (LRR or MLRA): LRRN Lat: 37,749157 Long: -82,462508 Datum: NAD83 (KYFIPS Soil Map Unit Name: FIB: FiveHock, Fargoint, Kaymin Soil, 0-690 Slipe, rocky NWI classification: N/A No \_\_\_\_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Upland point associated w/ wetland AR **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) \_\_\_ True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) — Hydrogen Sulfide Odor (C1) \_\_\_ Drainage Patterns (B10) \_\_\_ Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) \_\_\_\_ Moss Trim Lines (B16) \_\_\_ Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) \_\_ Crayfish Burrows (C8) \_ Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) \_\_ Geomorphic Position (D2) \_\_ Inundation Visible on Aerial Imagery (B7) Shallow Aguitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Water Table Present? Saturation Present? Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:) 1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
2				111dt/110 OB2, 171OV, 01171O.	(,,
				Total Number of Dominant Species Across All Strata	/D\
4. NA				Species Across All Strata:	(B)
V				Percent of Dominant Species 33.3	
5				That Are OBL, FACW, or FAC:	(A/B)
6				Prevalence Index worksheet:	
7,				Total % Cover of: Multiply by:	
		= Total Cove		OBL species x 1 =	1
50% of total cover:	20% of	total cover:_			
Sapling/Shrub Stratum (Plot size:)				FACW species x 2 =	
1				FAC species x 3 =	
2				FACU species x 4 =	
3				UPL species x 5 =	
4.				Column Totals: (A)	(B)
5NA				Prevalence Index = B/A =	
4					
7				Hydrophytic Vegetation Indicators:	1/2
8				1 - Rapid Test for Hydrophytic Vegetation	
9.		-		2 - Dominance Test is >50%	
5		= Total Cove	-	3 - Prevalence Index is ≤3.0¹	
50% of total cover:				4 - Morphological Adaptations¹ (Provide supp	orting
Herb Stratum (Plot size: 544 )	2070 01	total cover		data in Remarks or on a separate sheet)	1
	10		FAW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	)
1. Andropagan virginicus 2. Ambrozia actemistolia	25		FACU		1
				<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ust
3. Lespedeza cuneata	- 20_			be present, unless disturbed or problematic.	
4. Setaria pumila	0		FAC	Definitions of Four Vegetation Strata:	
5. Juncus tenuis	20		FAC	Tree Mandy plants available stage 2 in 77 6 as	\
6. Arthraxon hispidis 7. Symphiatridum dumosum	10		FAL	Tree – Woody plants, excluding vines, 3 in. (7.6 cr more in diameter at breast height (DBH), regardles	
7. Symphia tridum dumosusa	5		FAC	height.	
8. Juneus effosus	2		FACU	Carting/Charle Wands plants evaluating vines I	
9				Sapling/Shrub – Woody plants, excluding vines, I than 3 in. DBH and greater than or equal to 3.28 ft	
10				m) tall.	`
11,				Herb – All herbaceous (non-woody) plants, regard	llocc
	112 :	= Total Cove	r	of size, and woody plants less than 3.28 ft tall.	11099
50% of total cover:	-	total cover:_			. 1
Woody Vine Stratum (Plot size:)	_			Woody vine – All woody vines greater than 3.28 f height.	t in
1.				neight.	-
2					
					- 1
3					
4				Hydrophytic	
5				Vegetation Present? Yes No	
500/ -54-4-1		Total Cove		resent: 165	
50% of total cover:		total cover:_			
Remarks: (Include photo numbers here or on a separate s	sheet.)				
*					
8					1
				ŷ.	

Depth	Matrix			dox Feature					20.00	5/
inches)	Color (moist)	%_	Color (moist)	%	Type'	Loc2	Texture		Remarks	s
2-4	10484/2	96	104R 6/8	_ 4_	C	M	SL			
				_						
								10.54		
							**********			4.5
							***********			
	-									
	***************************************				-			-		
			One was a substitution of				9	. 28 mm	31016.00	
	ioncentration, D=De Indicators:	epletion, RM	Reduced Matrix, I	MS=Maske	d Sand Gra	ains.			ing, M=Matri	x. Hydric Soils³:
Histosol			Dark Surfa	re (S7)					A10) (MLRA	-
	pipedon (A2)			Below Surfa	ace (S8) (N	ILRA 147,			Redox (A16	
Black H	listic (A3)		Thin Dark	Surface (S9	) (MLRA 1			(MLRA 14	17, 148)	
	en Sulfide (A4)			yed Matrix	(F2)		_		oodplain Soil	s (F19)
	d Layers (A5) uck (A10) (LRR N)		Depleted N		E6)		,	(MLRA 13		00 (TE12)
	uck (A10) <b>(LRR N)</b> ed Below Dark Surfa		Redox Dar Depleted D	ark Surface (I	X (2)(00)				v Dark Surfac in in Remark	
	ark Surface (A12)		Redox Dep				-	- S.O. (Explo		,
	Mucky Mineral (S1)	(LRR N,	Iron-Manga		ses (F12) (I	LRR N,				
MLR	A 147, 148)		MLRA 1	136)						
							3.			
	Gleyed Matrix (S4)		Umbric Sur	rface (F13)						egetation and
_ Sandy F	Redox (S5)		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	8) w	etland hydro	logy must be	e present,
Sandy F		i):	Umbric Sur Piedmont F	rface (F13)	Soils (F19)	(MLRA 14	8) w	etland hydro		e present,
Sandy F Stripped Restrictive Type:	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	8) w	etland hydro	logy must be	e present,
Sandy F Stripped Restrictive Type:	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	8) w	etland hydro nless disturb	logy must be	e present,
Sandy F Stripped Restrictive Type:	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.
Sandy F Stripped Restrictive Type: Depth (in	Redox (S5) d Matrix (S6) Layer (if observed		Umbric Sur Piedmont F	rface (F13) Floodplain S	Soils (F19)	(MLRA 14	(8) w	etland hydro nless disturb	ology must be sed or probles	e present, matic.

Project/Site: Martin Caruty Salac	City/County: Mantin Co	Sampling Date: (1 4 26
Applicant/Owner: Sculion		State: KY Sampling Point: W#5-83
Investigator(s): 5. Kelley, C. Knebe)	Section Township Range	
Landform (hillslope, terrace, etc.): Roco side		
Subregion (LRR or MLRA): LRR N Lat: 3		
Soil Map Unit Name: FIF: Fireblock, Fairpoint, Ko		
Are climatic / hydrologic conditions on the site typical for the	-	
Are Vegetation, Soil, or Hydrology		I Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology		explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sampling point location	ons, transects, important features, etc.
Hydric Soil Present? Yes	No Is the Sampled Area within a Wetland?	Yes No
Remarks:		
Wetlar	vd AS	
• • • • • • • • • • • • • • • • • • • •		PEM
		((2))
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all		Surface Soil Cracks (B6)
<del>-  </del>	ue Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
	drogen Sulfide Odor (C1) idized Rhizospheres on Living Roots (C3)	Drainage Patterns (B10) Moss Trim Lines (B16)
	esence of Reduced Iron (C4)	Noss Triff Lifes (BT0) Dry-Season Water Table (C2)
	cent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)
	in Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
A	ner (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)	*	FAC-Neutral Test (D5)
Field Observations:		
rieid Observations:	and the second s	
	epth (inches):	1 E
Surface Water Present? Yes No De No	epth (inches):	
Surface Water Present? Yes No De Water Table Present? Yes No De	epth (inches):	Hydrology Present? Yes No
Surface Water Present? Yes No De No	epth (inches): 0 Wetland H	
Surface Water Present? Yes No De No No De	epth (inches): 0 Wetland H	
Surface Water Present? Yes No De No	epth (inches): 0 Wetland H	
Surface Water Present? Yes No De No	epth (inches): 0 Wetland H	
Surface Water Present? Yes No De No	epth (inches): 0 Wetland H	
Surface Water Present? Yes No De No	epth (inches): 0 Wetland H	
Surface Water Present? Yes No De No No De	epth (inches): 0 Wetland H	
Surface Water Present? Yes No De No	epth (inches): 0 Wetland H	

# - 60 - 1 - (DL 1 - )	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:) 1	3-1-1-1	Species?	100	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
2	-			Total Number of Dominant	(D)
4. NA				Species Across All Strata:	(B)
				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:	(A/B)
6				Prevalence Index worksheet:	
7				TO CHARGE AND THE STATE OF THE	[1]
ž.		= Total Cov		Total % Cover of: Multiply by:	
50% of total cover:	20% of	total cover:		OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 5M				FACW species x 2 =	
1. Salix nigra	5	/	OBL	FAC species x 3 =	
1. Salix nigra 2. Plataus occidentalis	2		FACU	FACU species x 4 =	
3			Titled	UPL species x 5 =	
3			=	Column Totals: (A)	
4,			-	Column Fotals (//)	. (5)
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7					
8				1 - Rapid Test for Hydrophytic Vegetation	
9				2 - Dominance Test is >50%	
3-	7	Total Car		3 - Prevalence Index is ≤3.01	
50% of total cover: _3.5		Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supp	orting
50% of total cover: 5.3	20% 01	total cover.	1, 1	data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: 5M)			401	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	)
1. Typha angustifolia	65		OBL		'
2. Juneus tenuis	25	_	FAC	New Yorks and the date of the second	
3. Platanus occidentalis	2		FACIN	Indicators of hydric soil and wetland hydrology make present, unless disturbed or problematic.	ust
4. Salix nigra	5		FACE		
5. Arthraxon hispidis	ID		FAC	Definitions of Four Vegetation Strata:	
	,			Tree - Woody plants, excluding vines, 3 in. (7.6 c	m) or
6				more in diameter at breast height (DBH), regardle	
7				height.	
8				Sapling/Shrub – Woody plants, excluding vines,	224
9				than 3 in. DBH and greater than or equal to 3.28 f	
10				m) tall.	- , .
11					
	107 =	Total Cove		Herb – All herbaceous (non-woody) plants, regard of size, and woody plants less than 3.28 ft tall.	liess
50% of total cover: <u>53.5</u>				or size, and woody plants less than 5.20 it tall.	
W. Carrier	20% 01	iolar cover.	₩/\·	Woody vine - All woody vines greater than 3.28 f	t in
Woody Vine Stratum (Plot size:)		i.		height.	
1,					
2					- 1
3NA					
4.					
5	-			Hydrophytic Vegetation	
0		Total Cove		Present? Yes No	
FOO/ of total covers					
50% of total cover:		total cover:			
Remarks: (Include photo numbers here or on a separate s	heet.)				
and the second s					
		*			
				ė	

Depth	Matrix		Red	dox Features	S				
inches)	Color (moist)	%	Color (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	marks
-5	104R 5/1	98	10485/8	2	(	M	Sic		
			-						
	/ <del>************************************</del>								
	) ( <del>)</del>								
		100							
			-						
			-						
Type: C=Co	oncentration. D=De	pletion RM	=Reduced Matrix, M	/S=Masked	Sand Gra	ins	<sup>2</sup> Location: PL=F	Pore Lining, M=	Matrix
	Indicators:	picuori, rav	reduced matrix, is	no masico	ound Ore	iii io.			atic Hydric Soils3:
_ Histosol			Dark Surfac	ce (S7)				Muck (A10) (N	-
manufic or a second	oipedon (A2)		Polyvalue B		ce (S8) /M	LRA 147		st Prairie Redox	
	istic (A3)		Thin Dark S					ILRA 147, 148)	
	en Sulfide (A4)		Loamy Gley			, 170)		mont Floodplaii	
	d Layers (A5)		Depleted M		-,			ILRA 136, 147)	
	ick (A10) (LRR N)		Redox Dark		6)			Shallow Dark	
	d Below Dark Surfa	ce (A11)	Depleted Da					er (Explain in Re	
	ark Surface (A12)	Andrew Market St. N.	Redox Depi			50			<b>,</b>
_	Mucky Mineral (S1)	(LRR N,	Iron-Manga		4.50	.RR N,			
					, , , , , , , ,				
MLRA	A 147, 148)		MLRA 1	36)					
	A 147, 148) Bleyed Matrix (S4)	Ð	MLRA 1: Umbric Surf		MLRA 130	5, 122)	<sup>3</sup> Indica	ors of hydrophy	ytic vegetation and
_ Sandy G		÷		face (F13) <b>(</b>				tors of hydrophy and hydrology ma	
Sandy G Sandy R Stripped	Gleyed Matrix (S4) Redox (S5) I Matrix (S6)		Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	) wetlar		ust be present,
Sandy G Sandy R Stripped Sestrictive I	Bleyed Matrix (S4) Redox (S5) Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	) wetlar	nd hydrology mi	ust be present,
Sandy G Sandy R Stripped estrictive I	Gleyed Matrix (S4) Redox (S5) I Matrix (S6)	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	) wetlar	nd hydrology mi	ust be present,
Sandy G Sandy R Stripped estrictive I Type:	Bleyed Matrix (S4) Redox (S5) Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	) wetlar	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped Sestrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped Sestrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped Strictive I Type:	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	<b>)</b> :	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	): -	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	): 5	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	): 50	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	): 	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	): 	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	): 	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,
Sandy G Sandy R Stripped estrictive I Type: Depth (inc	Bleyed Matrix (S4) Redox (S5) I Matrix (S6) Layer (if observed	):	Umbric Surf	face (F13) <b>(</b> loodplain Se	oils (F19) (	MLRA 148	wetlar unless	nd hydrology mi s disturbed or p	ust be present,

WETLAND DETERMINATION DATA FORM - East	ern Mountains and Piedmont Region
Project/Site: Martin County Solat City/County:	Martin Cowy Sampling Date: 11/6/20
Applicant/Owner: Swise	State: KY Sampling Point: WAS -84
Investigator(s): 5. Kelley, C. Kuulsul Section, Tow	
	cave, convex, none): Convol Slope (%): 3
	Long# 22.457589 Datum: NAD83 (X4)
Soil Map Unit Name: Fit : Five block, Fairpoint, Kaymine Soil, 30-80%	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling	point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydrig Soil Drocont?	Sampled Area
Wetland Hydrology Present? Yes No	a Wetland? Yes No
Remarks:	
	1 / 1 ml/ A AS
Upland point associated	A W/ WOTING 113
Op. T	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Liv	1-3
Water Marks (B1) Presence of Reduced Iron (C	
Sediment Deposits (B2) Recent Iron Reduction in Tille	ed Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	Westernd Unidentary Present 2 No.
(includes capillary fringe)	Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous in	spections), if available:
Remarks:	
	80
	0

	Absolute Dom	inant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Spe	cies? Status	Number of Dominant Species
1,			That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3			Species Across All Strata: 4 (B)
. UA			
·			Percent of Dominant Species That Are OBL FACW or FAC:  (A/B)
5			That Are OBL, FACW, or FAC: (A/B)
6			Prevalence Index worksheet:
7			Total % Cover of: Multiply by:
		al Cover	
50% of total cover:	20% of total	cover:	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15M)  1. Eleagy/1/5 um/let/ata		, «	FACW species x 2 =
1 Eleagylus umberlata	40	/ UPL	FAC species 30 x3 = 90
2			FACU species <u>59</u> x 4 = <u>236</u>
			UPL species 42 x 5 = 210
3			Column Totals: (3) (A) 536 (B)
4			
5			Prevalence Index = B/A = 4,09
6			Hydrophytic Vegetation Indicators:
7			
8			1 - Rapid Test for Hydrophytic Vegetation
9			2 - Dominance Test is >50%
J.	40 = Tota	al Cover	3 - Prevalence Index is ≤3.0¹
50% of total cover: 20			4 - Morphological Adaptations (Provide supporting
	20% or total o	cover:	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5M )	2.4	/ _ 1	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Ambrosia artenisifolia		FACU	
2. Lonicera japonica	<u> </u>	FACU	1
3. Dayous carata	5	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Juneus tenuls	15	FAL	
	10	FACU	Definitions of Four Vegetation Strata:
5. Andropagen virginious	15		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Arthrasan hispidis		FAC.	more in diameter at breast height (DBH), regardless of
7. Solidago canadensis	_10	FACU	height.
8. Eleagnus umbellab		UPL	Continuity (Charles Manufacture and Alberta Toron
9. Lespede za cuneate	12	FAW	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10			m) tall.
11			Herb – All herbaceous (non-woody) plants, regardless
		l Cover	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>45,5</u>	20% of total of	cover: IBrd	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)			height.
1			
2			
3. NA			
4		<del></del>	
*			Hydrophytic
5	———		Vegetation Present? Yes No
		l Cover	Present? Yes No/_
50% of total cover:	20% of total of	cover:	
Remarks: (Include photo numbers here or on a separate s	heet.)		
			**

Depth	Matrix			x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Rema	rks
0-3	107R 3/1	100					51C		
	•								
	-					-			
				1					
							<del></del>		
	7	-						16 x 26 x 20 x 20 11 store 1	160-
	oncentration, D=Dep	letion, RM=F	Reduced Matrix, MS	=Masked	Sand Gra	ins.	<sup>2</sup> Location: PL=P		
	Indicators:							for Problematic	
_ Histosol	A		Dark Surface	(N)				Muck (A10) (MLR	•
	pipedon (A2)		Polyvalue Be					Prairie Redox (A	.16)
_ Black Hi			Thin Dark Su			47, 148)		RA 147, 148)	
	n Sulfide (A4)		Loamy Gleye		-2)			nont Floodplain S	oils (F19)
	d Layers (A5)		Depleted Mat		2)			RA 136, 147)	food (TEAC)
	ick (A10) (LRR N)	~ (^44)	Redox Dark S					Shallow Dark Sur (Explain in Rema	
	d Below Dark Surfac ark Surface (A12)	e (ATT)	Depleted Dar Redox Depre				Other	(Explain in Rema	arks)
	lucky Mineral (S1) (L	DD N	Iron-Mangane			DD N			
	147, 148)	-KK N,	MLRA 136		S (1-12) (L	INN IV,			
	Bleyed Matrix (S4)		Umbric Surfa	•	MI RA 136	6 122)	3Indicate	rs of hydrophytic	vegetation and
	ledox (S5)		Piedmont Flo					hydrology must	
	Matrix (S6)		Red Parent M					disturbed or prob	
	ayer (if observed):	ō							
	avel layer								
Depth (inc			_				Hydric Soil Pre	sent? Yes	No /
	Jiles).		_				riyunc son Fie	Sent: 165	
Remarks:									
	4								
						Ser.			
						8			

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

Project/Site: Martin County Solar City/County: Martin County Sampling Date: 11/6/20
Applicant/Owner: State: LY Sampling Point: JAS-05
Investigator(s): 5. Kellcy, C. Knabel Section, Township, Range: N/K
Landform (hillslope, terrace, etc.): Clieral Local relief (concave, convex, none): Concave Slope (%): O
Subregion (LRR or MLRA):
Soil Map Unit Name: F:F: Fiveblock, Fairpoint Keymine Soil, 30-8090 Slupe, Stony NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No. Is the Sampled Area
Hydric Soil Present?  Yes No Within a Wetland?  No N
Wetland Hydrology Present? Yes No No
Remarks:
Wetland AT
Cliff edge wetland seeping and feeding wetlands below PEM
HYDROLOGY
STATE OF THE STATE
Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)  Surface Soil Crocks (RS)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Water (A1)  True Aquatic Plants (B14)  Sparsely Vegetated Concave Surface (B8)
Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)
Saturation (A3)  — Nydrogen Suinde Odor (C1)  — Drainage Fatterns (B16)  — Oxidized Rhizospheres on Living Roots (C3)  — Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)
Valer Marks (B1) Presence of Reduced from (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Sediment Deposits (B2) Recent from Reduction in Finied Solis (Co) Crayish Burrows (Co) Crayish Burrows (Co) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5) Geomorphic Position (D2)
Indit Deposits (D3) Shallow Aquitard (D3)
Water-Stained Leaves (B9) Microtopographic Relief (D4)
Aquatic Fauna (B13) FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches): O
Saturation Present? Yes No Depth (inches): _O Wetland Hydrology Present? Yes No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
* Raired wetland point located in field notebook
(n)
N N

	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:) 1)	2.4410-0.2510-0.2512	Species?		Number of Dominant Species That Are OBL, FACW, or FAC:	A)
2					1)
3				Total Number of Dominant Species Across All Strata: (I	B)
4. 110				,	٥,
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (/	Δ/R)
6				That Are OBL, FACW, or FAC.	<b>4</b> (D)
7				Prevalence Index worksheet:	
*		= Total Cov	er	Total % Cover of: Multiply by:	
50% of total cover:				OBL species x 1 =	
Sapling/Shrub Stratum (Plot size:)				FACW species x 2 =	
1				FAC species x 3 =	
2				FACU species x 4 =	
3				UPL species x 5 =	
4. NA				Column Totals: (A)	(B)
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0¹	
		= Total Cov		4 - Morphological Adaptations¹ (Provide suppo	rting
50% of total cover:	20% of	total cover:		data in Remarks or on a separate sheet)	
Herb Stratum (Plot size: 5M)	/ 0	/	0.51	Problematic Hydrophytic Vegetation¹ (Explain)	
1. Typha latifolia	-68_	<del>-/-</del>	086		
2. Phalus arondinaceu	1		PAW	<sup>1</sup> Indicators of hydric soil and wetland hydrology mus	st
3. Solix nigra	<u></u>		COLL	be present, unless disturbed or problematic.	
4. Bivens Frondosa				Definitions of Four Vegetation Strata:	
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm	ı) or
6				more in diameter at breast height (DBH), regardless	
7				height.	
8				Sapling/Shrub - Woody plants, excluding vines, le	
9				than 3 in. DBH and greater than or equal to 3.28 ft m) tall.	(1
10					
11		Total Cov		Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	ess
50% of total cover: _50					
Woody Vine Stratum (Plot size:)				Woody vine – All woody vines greater than 3.28 ft height.	in
1				neight.	
2					
3. NA					
4			<u> </u>	Hydrophytic	
5				Hydrophytic Vegetation	
		= Total Cov	er	Present? Yes No	
50% of total cover:	20% of	total cover:			
Remarks: (Include photo numbers here or on a separate s	sheet.)			7	
				W	

Depth Matrix		Features			
inches) Color (moist) % 0-8 10484/2 100	Color (moist)	% Type¹	Loc <sup>2</sup>	Texture	Remarks
					Y
ype: C=Concentration, D=Depletion, RI	M=Reduced Matrix, MS=	Masked Sand Gr	ains.		re Lining, M=Matrix.
dric Soil Indicators:				Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) 2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11)		w Surface (S8) (Nace (S9) (MLRA 1 Matrix (F2) x (F3) urface (F6)		48) Coast I (MLI Piedmo (MLI Very SI	luck (A10) (MLRA 147) Prairie Redox (A16) RA 147, 148) ont Floodplain Soils (F19) RA 136, 147) hallow Dark Surface (TF12) Explain in Remarks)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	MLRA 136)	se Masses (F12) (			
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	Piedmont Floor	e (F13) <b>(MLRA 13</b> dplain Soils (F19) iterial (F21) <b>(MLR</b>	(MLRA 148)	wetland	s of hydrophytic vegetation and hydrology must be present, isturbed or problematic.
estrictive Layer (if observed):					
Type: Depth (inches):				Hydric Soil Pres	ent? Yes No
emarks:					
Ð					

WETL	AND	DE	<b>TERM</b>	INAT	<b>LION</b>	DATA	FORM	l Ea	stern	Mour	ntains	and	Piec	mon	t Re	aion

Project/Site: Martin County Solic  Applicant/Owner: Savjan  Applicant/Owner: Savjan  Investigator(s): S. Kelley, C. Knahel  Landform (hillslope, terrace, etc.): Hilldore  Local relief (concave, convex, none): Conjak  Slope (%): 4  Subregion (LRR or MLRA): LRKV  Lat: 37.742215  Long: -82.447165  Datum: NAD03(KIFI)  Soil Map Unit Name: Fif: Fixebook, Fuirpoint, Kanpaine Soil, 30-86% Slope, Stone  NWI classification: MA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No  Yes No  Yes No  Within a Wetland?  Yes No
Remarks:
Upland point associated w/ Wetland AT
HYDROLOGY
Wetland Hydrology Indicators:  Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
Surface Water (A1)  True Aquatic Plants (B14)  Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1)  Drainage Patterns (B10)
Saturation (A3)  Oxidized Rhizospheres on Living Roots (C3)  Moss Trim Lines (B16)
Water Marks (B1)  Presence of Reduced Iron (C4)  Dry-Season Water Table (C2)
Sediment Deposits (B2)  Recent Iron Reduction in Tilled Soils (C6)  Crayfish Burrows (C8)  Set untion Visible on Assistance (C7)
Drift Deposits (B3)  Thin Muck Surface (C7)  Algal Mat or Crust (B4)  Thin Muck Surface (C7)  Other (Explain in Remarks)  Saturation Visible on Aerial Imagery (C9)  Stunted or Stressed Plants (D1)
Iron Deposits (B5)
Inundation Visible on Aerial Imagery (B7)  Shallow Aquitard (D3)
Water-Stained Leaves (B9)  Microtopographic Relief (D4)
Aquatic Fauna (B13) FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes No, Depth (inches):
Water Table Present? Yes No/_ Depth (inches):
Saturation Present? Yes No/ Depth (inches): Wetland Hydrology Present? Yes No/
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Remarks.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species
1. Pinus rigida	20		FACO	That Are OBL, FACW, or FAC: 2 (A)
2. Lirindendron folipitera	15		FACU	Total Number of Descious
3. Platanus accidentalis			FAUN	Total Number of Dominant Species Across All Strata: (B)
4.	,		-	(2)
5			-	Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B)
5	-			That Are OBL, FACW, or FAC: (A/B)
6	-	·		Prevalence Index worksheet:
/,			-	Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover: 22.4	<u> </u>	total cover.	7	
Sapling/Shrub Stratum (Plot size: 15m)		,		FACW species x 2 =
1. Tex opaca	10		FACU	FAC species x 3 =
2 Eleagnes umbellion	40_		UPL	FACU species x 4 =
3			-	UPL species x 5 =
4				Column Totals: (A) (B)
187				
5				Prevalence Index = B/A =
6		0.	-	Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
	50	= Total Cov	er	
50% of total cover: 25				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5M )				data in Remarks or on a separate sheet)
1. Lonicera japonica			FACU	Problematic Hydrophytic Vegetation¹ (Explain)
2. Marostegion virniveum	-5	<del></del>		
			FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Eleagnus umhellata				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5	i ————			
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less
		-		than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10		-		m) tan.
11,				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 11.5	20% of	total cover:	4,2	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2.				
3 NA	1			
4		-	-	
				Hydrophytic
5	-			Vegetation Present? Yes No
		= Total Cove		Present: TesNo
50% of total cover:	20% of	total cover.		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Description: (Describe to the dept	th needed to docu	nent the ind	icator or confi	rm the absence	of indicators.)
Depth Matrix		x Features	. 1 . 2		2
(inches) Color (moist) %	Color (moist)	%	ype <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-5 JOYR 4/2 100				_ SiL_	
				-	
				-	
-					
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=	Reduced Matrix. MS	S=Masked Sa	and Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil Indicators:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			ators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Dark Surface	(S7)			cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)			S8) (MLRA 14		coast Prairie Redox (A16)
Black Histic (A3)			LRA 147, 148)		(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleye	d Matrix (F2)		<u>⊢</u> P	liedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Ma	trix (F3)			(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark				ery Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dar		7)	Ħ°	Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depre				F
Sandy Mucky Mineral (S1) (LRR N,			F12) (L <b>RR N</b> ,		
MLRA 147, 148)	MLRA 13		DA 426 420\	3100	icators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4) Sandy Redox (S5)		E (5) (5)	RA 136, 122) (F19) (MLRA 1		etland hydrology must be present,
Stripped Matrix (S6)			(MLRA 127, 14		less disturbed or problematic.
Restrictive Layer (if observed):		natorial (1 21)	(INCION 127, I	1	*
Type: Gravel layer				1	
Depth (inches): 5				Hydric Soil	Present? Yes No
	_			riyane son	riesent: 1es No
Remarks:					
Coal spoil	nierbaced	w/ 6.	-( layer		
Load spor	11/161 000		511 1096		
					-
					-

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region
Project/Site: Martin County Solar City/County: Martin County Sampling Date: 11/4/20
Applicant/Owner: Source Sampling Point: WAS-871
Investigator(s): J. Kiser, M. Johnson Section, Township, Range: NA
Landform (hillslope, terrace, etc.): Sup Willord / Rouds, Le D. La Local relief (concave, convex, none): Convex Slope (%): 1-0
Subregion (LRR or MLRA):
Soil Map Unit Name: WAJOC: Anthroportic-U Jorthants Urban land Complex, 0-1590 Slope NWI classification: N/T
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Solwing Findings - Attach site map showing sampling point locations, transects, important reactives, etc.
Hydrophytic Vegetation Present?  Yes No Is the Sampled Area
Hydric Soil Present? Yes No within a Wetland? Yes No
Wetland Hydrology Present? Yes No
Remarks:
Wetland-HU
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Wetland-AU  Area includes roadside ditch & Side Slope Seep.  PEM
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
✓ Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)       Hydrogen Sulfide Odor (C1)     ✓ Drainage Patterns (B10)
✓ Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3)
Water-Stained Leaves (B9) Microtopographic Relief (D4)
Aquatic Fauna (B13)
Field Observations:
Surface Water Present? Yes V No Depth (inches): O- H
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Demortes
Remarks:
water is seeping out of Slope and creates a sheam. Welland extends of slope and backs up detch to underreath bridge.
or slove and half sun ditch to underreath bridge.
of suite and baces of day
×.

Table Occupied (DL)	Absolute	Dominant		Dominance Test worksheet:
1)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
		Total Cove	er	Total % Cover of: Multiply by:
50% of total cover:	20% of	total cover:_		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15 M )	10	./	- 0.1	FACW species x 2 = FAC species x 3 =
1. Salix nigra				FACU species x 4 =
2				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
. 5		Total Cove	r	3 - Prevalence Index is ≤3.01
50% of total cover: 5				4 - Morphological Adaptations¹ (Provide supporting
Herb Stratum (Plot size:)		/		data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)
1. Equistion hymale	50		FACW	Problematic Hydrophytic Vegetation (Explain)
2 Aumphiotoichum prenanthoidies 3 Typha glayca	10	$\overline{}$	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Leersta Vorgenea	10		FAIL	be present, unless disturbed or problematic.
5. Nasturtiam Officinale	5		OBL	Definitions of Four Vegetation Strata:
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub - Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11				,
	80 =	Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 4D	20% of	total cover:_	16	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				*
3 NA				
4				Hydrophytic
5				Vegetation
		Total Cove		Present? Yes No
50% of total cover:  Remarks: (Include photo numbers here or on a separate si		total cover:_		
nomaino. (moidde prioto numbero nere or on a separate si	icei.j			
B.				
				5

Depth	Matrix			ox Feature					party of 7 Mill	
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	_Loc <sup>2</sup>	<u>Texture</u>		Remarks	
0-25	104R2/1	100					-	muck		
25-12	1042 4/1	100					Sandy board	Very S	ndy	
							)	1	7	
					-	-				
	-		-		-		-			
	-						-	-		
						,				
Type: C=Co	ncentration, D=Dep	oletion, RM=F	Reduced Matrix, M	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: F	PL=Pore Lin	ing, M=Matrix.	
ydric Soil I									roblematic H	
_ Histosol	` '		Dark Surface	. ,				,	A10) (MLRA 1	•
	ipedon (A2)		Polyvalue B				, 148)		e Redox (A16)	1
Black His			Thin Dark S			47, 148)		(MLRA 14		/E40\
	n Sulfide (A4) Layers (A5)		Loamy Gley  Depleted Ma		(1.5)	12	_	MLRA 13	oodplain Soils 36, 147)	(רוש)
	ck (A10) (LRR N)		Redox Dark		-6)		,		v Dark Surface	e (TF12)
	Below Dark Surface	ce (A11)	Depleted Da						in in Remarks	
_ Thick Da	rk Surface (A12)		Redox Depr							
	ucky Mineral (S1) (	LRR N,	Iron-Mangar		es (F12) (	LRR N,				
	147, 148)		MLRA 13		/MI DA 40	c 400)	31	d:1f b		
	leyed Matrix (S4) edox (S5)		Umbric Surfa						ydrophytic veg ology must be	
	Matrix (S6)		Red Parent						ed or problem	
	ayer (if observed)	:			- · / (	4				
Туре:			_						,	
	hes):						Hydric Soi	I Present?	Yes	No
Remarks:	* **									

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

Project/Site: Markin County Solar City	/County: Mark's County Sampling Date: 11/4/2020
Applicant/Owner: Savieri	/County: Markin County Sampling Date: 11/4/2020 State: KY Sampling Point: WAS - 88
Investigator(s): J. Kiser, M. Johnson Sec	tion, Township, Range: <b>N</b> ^
	elief (concave, convex, none): Concave Slope (%): 1-2
	Long: _82, 439199 Datum: NA 0 83 (W
Soil Map Unit Name: WALOC: Anthroportic Worthern - Urban land Co	
Are climatic / hydrologic conditions on the site typical for this time of year?	1 1/
Are Vegetation, Soil, or Hydrology significantly distr	
Are Vegetation, Soil, or Hydrology naturally problem	matic? (If needed, explain any answers in Remarks.)
	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?         Yes         No           Hydric Soil Present?         Yes         No           Wetland Hydrology Present?         Yes         No	Is the Sampled Area within a Wetland? Yes No
Pamarks	
14 pland Point assoc	cated w well and AU
Ogran	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)  True Aquatic Plants	
High Water Table (A2)  Hydrogen Sulfide O	
	eres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduce	ed Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2)	ion in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3)	(C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Re	
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9) Aquatic Fauna (B13)	Microtopographic Relief (D4)  FAC-Neutral Test (D5)
Field Observations:	TAO-Neutral Test (D3)
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pr	evious inspections), if availables
Remarks:	
	1

	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1,				That Are OBL, FACW, or FAC:(A)
2,				
				Total Number of Dominant
3				Species Across All Strata: (B)
4		-		Percent of Dominant Species
5,				That Are OBL, FACW, or FAC: 20,0 (A/B)
6,				
7				Prevalence Index worksheet:
		T-1-1 C		Total % Cover of: Multiply by:
500/ (1-1-1		= Total Cove		OBL species x 1 =
50% of total cover:	20% or	total cover:_		
Sapling/Shrub Stratum (Plot size: 15M		/	2	FACW species x 2 =
1. Eleagnus umballata	40	_	UPL	FAC species x 3 =
2. Liribbendrom tulipi Fera			FACU	FACU species x 4 =
			FALU	UPL species x 5 =
3 Juniperus virginiana	<u>C</u>	$\overline{}$		
4 Clyvistrum sinense			FALL	Column Totals: (A) (B)
5,				Prevalence Index = B/A =
6				
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
	75	Total Cove	r	
50% of total cover: 37.5				4 - Morphological Adaptations¹ (Provide supporting
Herb Stratum (Plot size: 5M)				data in Remarks or on a separate sheet)
	~	/	-A 1	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Symphiotrianum demosour			FAL	
2. lespedera cunerata	_5_		FACU	1 adiantara of budaia and another disconnections
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				
				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6,				more in diameter at breast height (DBH), regardless of
7,				height.
8,				
				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in, DBH and greater than or equal to 3,28 ft (1 m) tall.
10	-			iii) tail.
11.,				Herb – All herbaceous (non-woody) plants, regardless
	_10_=	Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <b>5</b>		total cover:_		
Woody Vine Stratum (Plot size: 20M )				Woody vine – All woody vines greater than 3.28 ft in
	10		FALU	height.
1. Conicera japonica	_10	<del></del>	17.0	
2				
3				
4.				
5.				Hydrophytic
J		-		Vegetation
-		Total Cove		riesent: res No v
50% of total cover:	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate sh	neet.)			

Profile Description: (Describe to the depth	needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type¹ Loc²	Texture Remarks
0-2 104R312		
2-6 104R43		
		F1
'Type: C=Concentration, D=Depletion, RM=R	educed Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Dark Surface (S7)	2 cm Muck (A10) (MLRA 147)
Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	
Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)	(MLRA 147, 148)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 136, 147)
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)	Very Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N, MLRA 136)	
MLRA 147, 148) Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	<sup>3</sup> Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (34) Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147	The state of the s
Restrictive Layer (if observed):		
Type: gravel		
Depth (inches): _6		Hydric Soil Present? Yes No
Remarks:		
Kemana		
1		
		4
		1

WEILAND DETERMIN				
Project/Site: Martin County Solar Applicant/Owner: Savion	City/0	County: Markin Cour	nky :	Sampling Date: 11/4/1020
Applicant/Owner: Savim			_ State: KY	Sampling Point WAS-89
Investigator(s): J. Kiser, M. Johnson				
Landform (hillslope, terrace, etc.): Roadside /	Plood plain Local rel	ief (concave, convex, no	ne): Concave	Slope (%): <b>O</b>
Subregion (LRR or MLRA):	Lat: 37,738934	Long: <u>-8</u> :	2,440374	Datum: NADB3 (K-)F:P
Soil Map Unit Name: 5gC: 5helocka - Grigsby	- orrville complax,	0-15% plopes	NWI classificat	ion:NA
Are climatic / hydrologic conditions on the site typ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Are Vegetation, Soil, or Hydrology	significantly distur	bed? Are "Norma	l Circumstances" pre	esent? Yes No
Are Vegetation, Soil, or Hydrology			explain any answers	
SUMMARY OF FINDINGS - Attach si			ons, transects,	important features, etc.
Hydric Soil Present? Yes _	No No No	Is the Sampled Area within a Wetland?	Yes	. No
	Wetland AV			PEM
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicato	rs (minimum of two required)
Primary Indicators (minimum of one is required;			Surface Soil C	
Surface Water (A1)	True Aquatic Plants (			tated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Patte	
Saturation (A3)		es on Living Roots (C3)	Moss Trim Line	
Water Marks (B1) Sediment Deposits (B2)	Presence of Reduced Recent Iron Reduction		Dry-Season W Crayfish Burro	
Drift Deposits (B3)	Thin Muck Surface (0	e in the second of the second	V. A	ole on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rer		1 1	essed Plants (D1)
Iron Deposits (B5)	` '		Geomorphic P	osition (D2)
Inundation Visible on Aerial Imagery (B7)			Shallow Aquita	rd (D3)
Water-Stained Leaves (B9)			Microtopograpi	
Aquatic Fauna (B13)			FAC-Neutral T	est (D5)
Field Observations:	/			
Surface Water Present? Yes No _				
Water Table Present? Yes No _				
Saturation Present? Yes V No (includes capillary fringe)	Depth (inches):	Wetland F	lydrology Present?	Yes No
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, pre	vious inspections), if ava	ilable:	
Damada				
Remarks:		0		
Small dutch concerts wet	land directly	y to Pigeon	Yeoush Cr	•

	Absolute E			Dominance Test worksheet:	
Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species	
1. 2. N/A				That Are OBL, FACW, or FAC:	(A)
2. N/A				Total Number of Dominant	
3				Species Across All Strata:	(B)
				oposice / toroco / til ottata:	
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:	(A/B)
6				Prevalence Index worksheet:	
7,					
	=	Total Cove	er	Total % Cover of: Multiply by	-T.
50% of total cover:	20% of to	tal cover:		OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15m)		_		FACW species x 2 =	
1. Salix rigia	10		OB_	FAC species x 3 =	
				FACU species x 4 =	
2				UPL species x 5 =	
3.					
4				Column Totals: (A)	(B)
5				Prevalence Index = P/A =	
6				Prevalence Index = B/A =	
7				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	n
8				2 - Dominance Test is >50%	
9	- 10			3 - Prevalence Index is ≤3.01	
	10			4 - Morphological Adaptations <sup>1</sup> (Provide	supporting
50% of total cover:	20% of to	tal cover:		data in Remarks or on a separate she	
Herb Stratum (Plot size: 5m)					
1. Equipetur Lymale	25	1/	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Ex	(plain)
2. Juneus ellusus	20	/	FALW		
			FAL	<sup>1</sup> Indicators of hydric soil and wetland hydrolo	gy must
3. Echanocloa crus -galli	15			be present, unless disturbed or problematic.	
4. Typha latifolia	- 19 -	<del>-/-</del>	OBL	Definitions of Four Vegetation Strata:	
5 Coprus Strigo sus	5		FACW		7.0
6 Bicathelium dichotomum	5		FAL	Tree – Woody plants, excluding vines, 3 in. ( more in diameter at breast height (DBH), reg	
7. Solidago gigantea	10		FACW	height.	aruiess 01
8. Asker Brenan Thoroles			FAL.		
				Sapling/Shrub - Woody plants, excluding vi	
9				than 3 in. DBH and greater than or equal to 3	3.28 ft (1
10				m) tall.	
11				Herb - All herbaceous (non-woody) plants, r	egardless
	95_=	Total Cove	er	of size, and woody plants less than 3.28 ft ta	
50% of total cover: 47.	7 20% of to	tal cover:_	19	Woods since All woods since greater then	2 20 H in
Woody Vine Stratum (Plot size:				Woody vine – All woody vines greater than 3 height.	3.28 π in
1				noight.	
Δ/Δ			-		
2 NT					
3,					
4				Hydrophytic	
5				Vegetation	
	=	Total Cove	er	Present? Yes No	_
50% of total cover:	20% of to	tal cover:_			
Remarks: (Include photo numbers here or on a separate	sheet.)				
A STATE OF THE STA				DELA	
				PEM	

Profile Desc	cription: (Describe	to the depth	needed to docur	nent the i	indicator	or confirm	n the absence	e of indicators.)
Depth	Matrix		Redo	x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	104R412	95	54R314	_5_	MS	M	SL	3
4-18	10 YR 411	70	5 412516	30	MS	M	SL	
							107	
-					16 <u> </u>		-	-
							-	
							-	-
-					///	) <del></del> -	7	-
			advised NAStaire NAS		Cand Ca		21ti D	Den Liebe Basadi.
Hydric Soil	oncentration, D=Depl	etion, Rivi=Re	educed Matrix, MS	>=IVIasked	Sand Gra	ains.		L=Pore Lining, M=Matrix.  ators for Problematic Hydric Soils <sup>3</sup> :
Histosol		[	Dark Surface	(\$7)				cm Muck (A10) (MLRA 147)
	pipedon (A2)	[	Polyvalue Be	1 1	ce (S8) <b>(N</b>	LRA 147.		Coast Prairie Redox (A16)
Black Hi		Ī	Thin Dark Su				···'     `	(MLRA 147, 148)
	n Sulfide (A4)	Ť	Loamy Gleye				⊢F	Piedmont Floodplain Soils (F19)
11 11 '	d Layers (A5)	Ī	Depleted Mat					(MLRA 136, 147)
	ick (A10) (LRR N)	F	Redox Dark S					/ery Shallow Dark Surface (TF12)
	d Below Dark Surface ark Surface (A12)	(A11) L	Depleted Dar				П	Other (Explain in Remarks)
	ark Surrace (A12) lucky Mineral (S1) <b>(L</b>	RRN [	Redox Depre			RR N		
	147, 148)	·	MLRA 130		00 (1 12) (1	-1414 14,		
	Bleyed Matrix (S4)	Ļ	Umbric Surfa		MLRA 13	6, 122)	<sup>3</sup> Ind	licators of hydrophytic vegetation and
Sandy R	edox (S5)	<u> </u>	Piedmont Flo	odplain S	oils (F19)	MLRA 14	8) we	etland hydrology must be present,
	Matrix (S6)		Red Parent M	/laterial (F	21) <b>(MLR</b> /	4 127, 147	<u>')</u> un	less disturbed or problematic.
	ayer (if observed):							
Type:			-					
Depth (inc	ches): Clay ha	rdpan	_				Hydric Soil	Present? Yes No
Remarks:								

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

Project/Site: Martin County Solar City/County:	Martin Lounty Sampling Date: 11/4/20
Applicant/Owner: Savian	State: KY Sampling Point: WAS-90
Investigator(s): J Kiser, M. Johnson Section, Tow	nship, Range:A
Landform (hillslope, terrace, etc.): Roodside Hill Local relief (con-	
Subregion (LRR or MLRA): Lat:	
Soil Map Unit Name: SqC: Shelocta - Grigsby - Driville complex, D-1	5 % Slopes NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
Are Vegetation, Soil, or Hydrology significantly disturbed?	Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic?	
SUMMARY OF FINDINGS – Attach site map showing sampling	point locations, transects, important features, etc.
Liveria Cail Draggart? Vac No.	Sampled Area a Wetland? Yes No
Remarks:	
upland Point for 1	vetland AV
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)  Oxidized Rhizospheres on Li	
Water Marks (B1) Presence of Reduced Iron (C) Sediment Deposits (B2) Recent Iron Reduction in Tille	1 1 1
Drift Deposits (B3)  Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No_V
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous in	spections), if available:
Remarks:	
	~
	4

Sampling Point: WAS - 90-

	Absolute	Dominant		Dominance Test worksheet:
		Species?		Number of Dominant Species
1,				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4. N Ae				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 28.6 (A/B)
6,				(100)
7				Prevalence Index worksheet:
		Total Cove	_	Total % Cover of: Multiply by:
50% of total cover:				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15M )			×	FACW species x 2 =
1. Platamos occidentalis	5		EALL	FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
3,				
4				Column Totals: (A) (B)
5,				Prevalence Index = B/A =
6,				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				
9				2 - Dominance Test is >50%
	5	Total Cove	er	3 - Prevalence Index is ≤3,01
50% of total cover:2,5	20% of	total cover:	1	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5M )		-		data in Remarks or on a separate sheet)
1. lapedina curenta	20	./	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Solidado allessina	20		FACU	
3. Verbyna untenfolie		-	FAL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4 Egusetun hamale		<del></del>		be present, unless disturbed or problematic.
		-	FALW	Definitions of Four Vegetation Strata:
5 Eupatoum Scholmun	10	J,	FAL	Tree – Woody plants, excluding vines, 3 in, (7.6 cm) or
6. Festica arundinacea	10	<u> </u>	FACU	more in diameter at breast height (DBH), regardless of
7. Tryolun pratuse	5		FAL	height,
8 Plantago major	5_		FACU	Sapling/Shrub Woody plants, excluding vines, less
9,				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	85 =	Total Cove	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 42.5		otal cover:		
Woody Vine Stratum (Plot size:)		_		Woody vine – All woody vines greater than 3.28 ft in height.
1. Lonicera japourca	15		FAW	neight,
2			1 9 1 1 1	
3			-	
4				
4				Hydrophytic
5,:	16			Vegetation Present? Yes No
500% -55-4-1 3.6		Total Cove otal cover:_		100 100
50% of total cover: 7,5		otal cover:_	2_	
Remarks: (Include photo numbers here or on a separate she	eet.)			

## SOIL

		to the depth	n needed to document the indicator or confirm	n the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Redox Features  Color (moist) % Type¹ Loc²	Texture	Remarks
5-4	10 4R 4/3	100		54	
4-18	10 YR 4/4	100		SL	
				,	
,				-	
	,				
					-
====	R <del>an</del>			-	-
===				-	-
	-	-			
	-				( <del></del>
	·				
		letion, RM=F	Reduced Matrix, MS=Masked Sand Grains.		L=Pore Lining, M=Matrix.
Hydric Soil I					ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) ipedon (A2)		Dark Surface (S7) Polyvalue Below Surface (S8) (MLRA 147,		cm Muck (A10) <b>(MLRA 147)</b> Coast Prairie Redox (A16)
Black His			Thin Dark Surface (S9) (MLRA 147, 148)	'*"	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	L F	Piedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 136, 147)
	ck (A10) (LRR N)	(6.4.4)	Redox Dark Surface (F6)		/ery Shallow Dark Surface (TF12)
	l Below Dark Surfac irk Surface (A12)	e (A11)	Depleted Dark Surface (F7)  Redox Depressions (F8)		Other (Explain in Remarks)
	lucky Mineral (S1) (I	_RR N,	Iron-Manganese Masses (F12) (LRR N,	· — ·	
	147, 148)	•	MLRA 136)		
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122)		licators of hydrophytic vegetation and
	edox (S5)		Piedmont Floodplain Soils (F19) (MLRA 14		etland hydrology must be present, less disturbed or problematic.
	Matrix (S6) ayer (if observed):		Red Parent Material (F21) (MLRA 127, 147	) un	less disturbed or problematic.
	ayer (ii ebeci rea).				,
	ches):		_	Hydric Soil	Present? Yes No
Remarks:			<del>-</del>		
			10		

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region Project/Site: Markin County Solar City/County: Markin County Sampling Date: 11/5/2020 Applicant/Owner: Savion State: KY Sampling Point: WAS-Investigator(s): J. Kiser C. Knabel \_\_\_\_\_ Section, Township, Range: VA Landform (hillslope, terrace, etc.): wads, de Local relief (concave, convex, none): \_\_\_\_\_\_\_\_ Slope (%): O - I Soil Map Unit Name: UCSKF: Clover | LK - Shelpctre - Kinger Complet 20-8030 slepe , Very stand NWI classification: \_\_ No \_\_\_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_ Are "Normal Circumstances" present? Yes \_\_\_\_ No \_\_\_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Area is between highwall & Gravel Road. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) ✓ Surface Water (A1) \_\_ True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) ✓ Drainage Patterns (B10) \_\_ Hydrogen Sulfide Odor (C1) High Water Table (A2) ✓ Saturation (A3) \_\_\_ Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Moss Trim Lines (B16) \_\_\_ Dry-Season Water Table (C2) \_\_ Water Marks (B1) Presence of Reduced Iron (C4) Sediment Deposits (B2) \_\_\_ Recent Iron Reduction in Tilled Soils (C6) \_\_ Crayfish Burrows (C8) \_\_ Drift Deposits (B3) \_\_ Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) \_\_\_ Algal Mat or Crust (B4) \_\_ Other (Explain in Remarks) Stunted or Stressed Plants (D1) \_\_\_ Iron Deposits (B5) Geomorphic Position (D2) \_\_ Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Microtopographic Relief (D4) \_\_\_ Water-Stained Leaves (B9) FAC-Neutral Test (D5) \_\_ Aquatic Fauna (B13) Field Observations: Yes No Depth (inches): 0-1/2" Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: wetland hydrology is driven from seep off of hydrical and. to lesser degree road ranoff.

Tree Stratum (Plot size:) 1			Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3 N/A				Total Number of Dominant Species Across All Strata:  (B)
56				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/t
7				Prevalence Index worksheet:
		= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover:	20% of	total cover		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15M)				FACW species x 2 =
1. Salix nigra	_5_	/	OBL	FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.01
500/ -51-1-1		= Total Cov		4 - Morphological Adaptations¹ (Provide supporting
50% of total cover: 2	<u>J</u> 20% of	total cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	05	,	40	Problematic Hydrophytic Vegetation¹ (Explain)
1. Typha lahifolia	84	-	OBL	
2 Timous Jeneus			FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Solidaço gigantia	41_		FALW	be present, unless disturbed or problematic.
4. Earisetun Vol male	5		FALW	Definitions of Four Vegetation Strata:
5				Deminions of Four Vegetation office.
6		-		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50.4				Woody vine All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2. A // A				
3				
4				
5.				Hydrophytic / Vegetation
		Total Cov	er	Present? Yes No
50% of total cover:		total cover:		,
Remarks: (Include photo numbers here or on a separate s				
Typha latifolia domini		ollo	0!	
J				
				PEM
				1 (1)

Profile Description: (Describe to the de	pth needed to docu	ment the i	ndicator	or confirm	m the abse	nce of indicators.)	
DepthMatrix	Redo	x Features					
(inches) Color (moist) %	Color (moist)	%	Type <sup>1</sup>	_Loc2	Texture	Remarks	
0-4 10YR4/1 97	54R 3/4	3	C	M	SL		
•							
	*					-	
		-					
		-					
					7		
	9,45,70	_	200		5.		
¹Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, M	S=Masked	Sand Gra	ains.		: PL=Pore Lining, M=Matrix.	3
Hydric Soil Indicators:						dicators for Problematic Hydric So	oils":
Histosol (A1)	Dark Surface	100	(02) /			_ 2 cm Muck (A10) (MLRA 147)	
Histic Epipedon (A2)	Polyvalue Be				, 148)	Coast Prairie Redox (A16)	
Black Histic (A3)	Thin Dark Si			47, 148)		(MLRA 147, 148)	
Hydrogen Sulfide (A4)	Loamy Gley	TOTAL TOTAL STREET, TOTAL STRE	F2)		_	Piedmont Floodplain Soils (F19)	
Stratified Layers (A5) 2 cm Muck (A10) (LRR N)	✓ Depleted Ma Redox Dark		(e)			(MLRA 136, 147)	
Depleted Below Dark Surface (A11)	Depleted Da	THE RESERVE THE PARTY OF THE PA			-	<ul><li>Very Shallow Dark Surface (TF12)</li><li>Other (Explain in Remarks)</li></ul>	,
Thick Dark Surface (A12)	Redox Depre				-	_ Other (Explain in Nemarks)	
Sandy Mucky Mineral (S1) (LRR N,	Iron-Mangar			RR N			
MLRA 147, 148)	MLRA 13		30 (i 12) <b>(i</b>				1
Sandy Gleyed Matrix (S4)	Umbric Surfa		MLRA 13	6. 122)	3	Indicators of hydrophytic vegetation	and
Sandy Redox (S5)	Piedmont Flo					wetland hydrology must be present	
Stripped Matrix (S6)	Red Parent					unless disturbed or problematic.	
Restrictive Layer (if observed):		-21.		*			
Type: Gravel/ Bedrock	_===						
Depth (inches):					Hydric S	Soil Present? Yes No _	
Soils not nat					4-		
	Λ 4	4 0		2		11 .0	
Sals not nat	wal resul	tok	me	une:	& Ca	that growth	
2003		U		1		0	
1. 011000							
in grove,							
n i							
							3
						*	

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region
Project/Site: Markin County Solar City/County: Markin County Sampling Date: 11/5/2020
Applicant/Owner: Savion State: KY Sampling Point: WAS -92
Investigator(s): T. 165er C. Knabel Section, Township, Range: NA
Landform (hillslope, terrace, etc.): voadside Local relief (concave, convex, none): Vonc Slope (%): 1 - 2
Subregion (LRR or MLRA):RRN
Soil Map Unit Name: UCSKF: Cloverlick-shelouta-Kimper Complex, 20-8090 slage yer-1800-1
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?  Remarks:  Is the Sampled Area within a Wetland?  Yes No
HYDROLOGY  Westland Underland and Indicators (minimum of two years) and the second of
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)Hydrogen Sulfide Odor (C1)Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)  Shallow Aquitard (D3)
Water-Stained Leaves (B9) Microtopographic Relief (D4)
Aquatic Fauna (B13) FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
No Indications of Wetland Hydrology

Part 19 deprivations in 1		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:(A)
2. //				Total Number of Dominant
3		-		Species Across All Strata: 5 (B)
4		6.25		(5)
			-	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 0.0 (A/B)
6			-	Prevalence Index worksheet:
7				THE PROPERTY OF THE BOOKS OF THE PROPERTY OF T
	-	Total Cove	er	Total % Cover of: Multiply by:
50% of total cover:	20% of	total cover:_		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15m)				FACW species x 2 =
1. Atleagnus umbellata	5	./	1194	FAC species x 3 =
The state of the s			10	FACU species x 4 =
2. Benipeous virginiana		-	FAW	
3. Lividdendron tulipifera	_5_		FALU	UPL species x 5 =
4				Column Totals: (A) (B)
5				
6				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
	_15_=	Total Cove	er	
50% of total cover:	20% of	total cover:	3	4 - Morphological Adaptations¹ (Provide supporting
Herb Stratum (Plot size: 5m )				data in Remarks or on a separate sheet)
1. Miscanthus Siensis	75		FACU	Problematic Hydrophytic Vegetation¹ (Explain)
	10			
2. DONY LACKYTIUM COLORIUM	War		FAW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Schedonerous arundinaces	15		FACO	be present, unless disturbed or problematic.
4. Solidago Memeroalis	_5_		UPL	Definitions of Four Vegetation Strata:
5 Lespedena Cementa	10		FAW	Deminions of Four Vegetation outday.
6. Packera anonyma	5		UPL	Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
			VI-	more in diameter at breast height (DBH), regardless of
7		-		height.
8				Sapling/Shrub - Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Date All Every Water and A. Late
	70 :	Total Cove		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 35		total cover:	14 1 4 14	of size, and woody plants less than 5.25 it tail.
	_ 20% 01	iotal cover		Woody vine - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				4-
4		A SECOND POR		
6				Hydrophytic
<u></u>		<del></del>		Vegetation Present? Yes No
500/ - CL L L		Total Cove		1035111
50% of total cover:		total cover:_		
Remarks: (Include photo numbers here or on a separate sh	neet.)			
				*
ж.				
· ·				
A STATE OF THE STA		-		The second secon

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_	•	_

epth	cription: (Describe t Matrix	o ine depui in		x Features			and appende	,
nches)	Color (moist)	% C	Color (moist)	%	Type <sup>1</sup>	Loc2	Texture	Remarks
20 kg	104R412	Worse.	Chiann	40Mag	O) orbital	dilimiti	SL	
166	TON THE CLASS							
	·							
			**					
					-			
_								
		The last level						
0-0	Separation DeDool		wood Matrix MC	-Maakad	Cand Can		2) continue Di -	Doro I loino MeMaleiv
	Concentration, D=Deple Indicators:	elion, Rivi=Red	uced Matrix, MS	-wasked	Sand Gra	iins.		Pore Lining, M=Matrix.  Pors for Problematic Hydric Soils
			Dark Curfees	(07)	18			
Histoso		_	_ Dark Surface		- (CO) /84	I DA 447		m Muck (A10) (MLRA 147)
	Epipedon (A2)	_	<ul><li>Polyvalue Be</li><li>Thin Dark Su</li></ul>					ast Prairie Redox (A16)
	listic (A3)	-				47, 148)		MLRA 147, 148)
	en Sulfide (A4)	_	_ Loamy Gleye		-2)			dmont Floodplain Soils (F19)
	ed Layers (A5) uck (A10) <b>(LRR N)</b>		<ul><li>Depleted Mat</li><li>Redox Dark S</li></ul>		2)			MLRA 136, 147) ry Shallow Dark Surface (TF12)
	ed Below Dark Surface	(411)	_ Depleted Dar					ner (Explain in Remarks)
	ed Below Dark Surface Park Surface (A12)		_ Redox Depre				0	iei (Explaiii iii Remaiks)
	Mucky Mineral (S1) <b>(L</b> l		_ Iron-Mangane	and the same of th		DD N		
	A 147, 148)		_ IIOII-Wangane		5 (1 12) (L	-NN IV,		
	Gleyed Matrix (S4)		_ Umbric Surfa		MI DA 136	6 122\	3Indic	ators of hydrophytic vegetation and
	Redox (S5)	_	_ Piedmont Flo					and hydrology must be present,
	d Matrix (S6)	-	Red Parent M					ss disturbed or problematic.
	Layer (if observed):		_ red ratefit iv	iateriai (i z	- 1) (INILIX	121, 171	) dillo	as disturbed of problematic.
T	Rock - Bed	Brok						
	April 1	March Strategy						
Depth (in	nches):						Hydric Soil P	resent? Yes No 🖤
narks:								

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region Project/Site: Martin County Solar City/County Martin County Sampling Date: 11 5 2020 Applicant/Owner: Sovrem Sampling Point WAS Investigator(s): J. Krabe Section, Township, Range Landform (hillslope, terrace, etc.): roads, de Local relief (concave, convex, none): Subregion (LRR or MLRA): LRRN Lat: 37,142534 Long: -82,450227 Datum: NA D&3 (ペリティアラ) Soil Map Unit Name: UCSKF: Clovertick-shelocta-Kimper complex, 20-8800 slape, very stony NWI classification: N/A Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? Yes W No within a Wetland? Wetland Hydrology Present? Remarks: Wetland AX HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) True Aquatic Plants (B14) High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) FAC-Neutral Test (D5) Aquatic Fauna (B13) Field Observations: Depth (inches): Surface Water Present? Depth (inches) Water Table Present? Depth (inches): 3 = 6 Wetland Hydrology Present? Yes Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

	Absolute			Dominance Test worksheet:			
Tree Stratum (Plot size:)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:  (A)			
2				That Are OBL, FACW, or FAC:(A)			
3.				Total Number of Dominant Species Across All Strata:  4 (B)			
5	-			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)			
6				Prevalence Index worksheet:			
7				Total % Cover of:Multiply by:			
50% of total cover:		= Total Cov		OBL species x1 =			
Sapling/Shrub Stratum (Plot size: 15M )	20% 01	total cover.		FACW species x 2 =			
1 Pla Stratum (Piot Size 1777)	5	./	FACW	FAC species x 3 =			
1. Platanus occidentalis 2. Francous pentry lunca	211	-	FACIN	FACU species x 4 =			
				UPL species x 5 =			
3				Column Totals: (A) (B)			
4				Column Totals. (A)			
5.				Prevalence Index = B/A =			
6				Hydrophytic Vegetation Indicators:			
7				1 - Rapid Test for Hydrophytic Vegetation			
8				2 - Dominance Test is >50%			
9,				3 - Prevalence Index is ≤3.0 <sup>1</sup>			
		= Total Cov		4 - Morphological Adaptations¹ (Provide supporting			
50% of total cover: _12,5	<b>5</b> 20% of	total cover:	5_	data in Remarks or on a separate sheet)			
Herb Stratum (Plot size: 5M)		/		Problematic Hydrophytic Vegetation¹ (Explain)			
1. Juncus acominatus	60		OBL	Problematic Hydrophytic Vegetation (Explain)			
2. Carve Frankii	10		DBL	The disease of heads and head will be dead on the second			
3. Arthranon hispidis	20		FAL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
4. Asler dum-sus	5		FAL	Definitions of Four Vegetation Strata:			
5. Tussilago Factora	5		FACU				
6,				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of			
7				height.			
8				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1			
10				m) tall.			
11,				Harte All back and the state of			
	100	= Total Cove	or .	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
50% of total cover: 50		total cover:					
Woody Vine Stratum (Plot size:		**************************************		Woody vine – All woody vines greater than 3.28 ft in height.			
1.			)	neight.			
2 A/A							
3							
4							
5				Hydrophytic Vegetation			
5,		= Total Cove		Present? Yes No			
50% of total cover:							
Remarks: (Include photo numbers here or on a separate s		total oover.					
A CONTRACT OF THE PROPERTY OF		-					
Several small trees (Should layer) are 3 feet or less tall.							
				į			

Depth inches)	Color (moist)	%	Color (moist)	x Features %	Type <sup>1</sup>	Loc²	Texture	Rem	arks
7-3	10YR 4/2	70	10YR 5/6				SCL		Poor Charels
1-6	DYR SII	90	10YR blb	10	D	M	CL	54R 416	11
ype: C=C			=Reduced Matrix, M	S=Masked Sa	and Grain			'L=Pore Lining, M=M	
Histosol			Dark Surface	e (S7)				ators for Problema cm Muck (A10) <b>(ML</b>	
Black H Hydroge Stratified 2 cm Mu Deplete Thick Di Sandy N MLRA Sandy G Sandy F Stripped strictive Type:	pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) uck (A10) (LRR N) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) (LA 147, 148) Gleyed Matrix (S4) Redox (S5) i Matrix (S6) Layer (if observed): Layer (if observed): Ches):	LRR N,	Thin Dark St. Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre Iron-Mangan MLRA 13 Umbric Surfa Piedmont Flo	Surface (F6) rk Surface (F essions (F8) ese Masses (	7) (F12) (LF	7, 148)  RR N, , 122) VILRA 148) 127, 147)	3 Ind we	Coast Prairie Redox (MLRA 147, 148) Piedmont Floodplain (MLRA 136, 147) Pery Shallow Dark Scother (Explain in Rendicators of hydrophytetland hydrology musiless disturbed or pro	Soils (F19)  urface (TF12)  narks)  ic vegetation and at be present, ablematic.
Depth (in marks;	ches):					1	Hydric Soil	Present? Yes_	No
So	me Coal	Spoi	l in botton	1 3 m	les.				

#### WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region Project/Site: Martin County Solar City/County: Morten County Sampling Date: 11/5/2020 Applicant/Owner: Savium State: KY Sampling Point: WAS-9H Investigator(s): J. Kiser, C. Knabel Section, Township, Range: NA Landform (hillslope, terrace, etc.): \_\_\_\_ Local relief (concave, convex, none): Convex Slope (%): Subregion (LRR or MLRA): <u>LRR N</u> Lat: <u>37,742528</u> Long: <u>-82,450173</u> Datum: <u>NAD83(KYFIPS)</u> Soil Map Unit Name: WCst.F: Claudick Sulecta - Kinger Complex 20-869, Slove, very Stony NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes \_\_\_\_ No \_\_\_\_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Yes \_\_\_\_ No\_ W Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Upland Somple Point for Wetland AX **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Field Observations: Yes \_\_\_\_ No \_\_\_ Depth (inches):\_ Surface Water Present? Water Table Present? Depth (inches):\_\_\_\_ Wetland Hydrology Present? Yes \_\_\_\_ No\_ Yes \_\_\_\_ No V Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Time Stratum (Plot size		Absolute	Dominant	Indicator	Dominance Test worksheet:
That Are OBL, FACW, or FAC:	Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
Species Across All Strate: 4 (8)  Species Across All Strate: 4 (8)  Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B)  Prevalence Index worksheet:  Total Scover of Multiply by  OBL species x 1 =  FACW species x 2 =  FAC species x 3 =  FACW species x 3 =  FACW species x 3 =  FACW species x 4 =  FACW species x 3 =  FACW species x 3 =  FACW species x 4 =  FACW species x 3 =  FACW species x 4 =  FACW species x 5	1				
Species Across All Strate: 4 (8)  Species Across All Strate: 4 (8)  Percent of Dominant Species That Are OBL, FACW, or FAC: 25 (A/B)  Prevalence Index worksheet:  Total Scover of Multiply by  OBL species x 1 =  FACW species x 2 =  FAC species x 3 =  FACW species x 3 =  FACW species x 3 =  FACW species x 4 =  FACW species x 3 =  FACW species x 3 =  FACW species x 4 =  FACW species x 3 =  FACW species x 4 =  FACW species x 5	2				Total Number of Dominant
Percent of Dominant Species That Are OBL. FACW. or FAC.  That Are OBL. FACW. or FACW. or That The Are Are Are Are Are Are Are Are Are Ar	3				
That Are OBL FACW, or FAC 25 (A/B)  Prevalence Index worksheet: Total % Cover of: Multiply by OBL species	4. ///				
Frequence Index worksheet: Total % Cover of Multiply by OBL species x1 = Total % Cover of Multiply by OBL species x1 = Total % Cover of Multiply by OBL species x1 = Total % Cover of Multiply by OBL species x1 = FAC species x2 = FAC species x3 = FAC species x4 =					
Frevalence Index worksnesses   Frevalence Index worksnesses   Frevalence Index worksnesses   Frequency   Frevalence Index worksnesses   Frequency   Frevalence Index worksnesses   Frequency   Frequ					That Are OBL, FACW, of FAC. (A/B)
Total Cover   Solitorial cover   20% of total cov					Prevalence Index worksheet:
Solida Cover   20% of total cover   20% of total cover   50% of total cover   15			- Total Cau	~~~~~	Total % Cover of: Multiply by:
Saplino/Shrub Stratum (Plot size: 15 m	50% of total cover				OBL species x 1 =
1. Size finds whole far 2. Plants and section halfs 2. Plants are section for total cover. 2. Sow of total cover. 2. Sow of total cover. 3. Suppose for total cover. 3. Su		2070 01	total cover.		
2 Vidinatos Accordantes 30 Provinción (A) (B)  3 Tuni peros viriginiano 5 PALU  5 Prevalence Index = B/A = Column Totals: (A) (B)  Prevalence Index = B/A = Hydrophytic Vegetation Indicators:  1 Rapid Test for Hydrophytic Vegetation Indicators:  1 Rapid Test for Hydrophytic Vegetation Indicators:  1 Rapid Test for Hydrophytic Vegetation Indicators:  2 Prevalence Index is 50%  3 Prevalence Index is 50%  3 Prevalence Index is 50%  3 Prevalence Index is 50%  4 Mydrophytic Vegetation Indicators:  1 Rapid Test for Hydrophytic Vegetation Indicators:  1 Rapid Test	Saping/Siruo Stratum (Plot size. 1511)	15		01	
Same	1. Elcagnus umbellara	13			
Column Totals:(A)(B)    Prevalence Index = B/A =	2. Plutanos accidentalis	70			The state of the s
Prevalence Index = B/A = Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators: 2 - Dominance Test is >50% of total cover: 3 - Prevalence Index is \$5.0°! 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)  1 - Schedmerous Antinolog	3. Juniperus virginiana	5		FALU	AP'
Herb Stratum (Plot size: 5m )  1. Sharman	4				Column Totals: (A) (B)
Herb Stratum (Plot size: 5m )  1. Sharman	5				Dravalance Index - D/A -
7. 8. 9. 9. 1-1. Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% of total cover. 20 20% of total cover. 8  Herb Stratum (Plot size: 55m) 1. Schemmerate Arundinates 55m 2. Lespaters a brodget 15 UPL 2. Lespaters a brodget 15 UPL 3. Discours Care Fa. 10 FACU 4. Architecture 10 FACU 5. 10 FACU 5. 10 FACU 5. 10 FACU 6. 10 FACU 7. 5 FACU					
8 9 2 - Dominance Test is >50% of total cover: 30 20% of total cover: 30 20% of total cover: 30 3 - Prevalence Index is \$\leq 3.0^1 4 - Morphological Adaptations \text{! (Provide supporting data in Remarks or on a separate sheet)} 1. \$\leq \leq \leq \leq \leq \leq \leq \leq					
9.					
Solve of total cover: 30   20% of total cover: 30   3 - Plevalence index is \$5.00					2 - Dominance Test is >50%
Herb Stratum (Plot size: 5m )   20% of total cover.   20   20% of total cover.   30   20% of total cover.   30   20% of total cover.   30   30   30   30   30   30   30   3	9	110			3 - Prevalence Index is ≤3.01
Herb Stratum (Plot size: 50% of total cover: 20% of total cover: 30	50% (1.1.)	40			4 - Morphological Adaptations (Provide supporting
Problematic Hydrophytic Vegetation* (Explain)  1 Schemore actual makes  1 Sequence and product  2 Legador a product  3 Daucus care fa  10 FALU  4 Arthroxon hispidis  5 UPL  5 Joli dago rumans  6 Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Woody Vine Stratum (Plot size: 5 m)  1 Lorusor japung 15 FACU  15 Total Cover  50% of total cover: 15 20% of total cover: 1 Woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation (Explain)  Problematic Hydrophytic Vegetation* (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Woody vine Stratum (Plot size: 5 m)  1 Lorusor japung 15 FACU  15 FACU  15 Total Cover  50% of total cover: 1.5 20% of total cover: 3		20% of	total cover:	0	
2 Lespiters a hisolar 15   IPL   3 Datas Care fa   10   FAW   4 Archaven hispidis   5   FAC   5 Soli dago ruman   5   IPL   6   Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height   8   9			/	200	
3. Druces care to 4. Archeven hispides 5. FAC 6. Solidado runcale 8. 9. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  10. The regardless of height.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Woody Vine Stratum (Plot size: 50% of total cover: 47. 5 20% of total cover: 11  Woody Vine Stratum (Plot size: 5m) 1 Loncira popula 2	Schedonerous arundinacen				Troblematio rijuroprijite vegetation (Explain)
3. Druces care to 4. Archeven hispides 5. FAC 6. Solidado runnale 8. 9. Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  10. The regardless of height.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Woody Vine Stratum (Plot size: 50% of total cover: 47. 5 20% of total cover: 11  Woody Vine Stratum (Plot size: 5m) 1 Loncira popula 2	2. Lespedeza bicolor	15			hara and the second
4 Archieston hispidia 5 FAC (PL 5.50   dago rumnum 5	3. Davcus carofa	10	1	FACU	he present upless disturbed or problematic
5				FAC	
Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 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 (Plot size: 5m)  Woody Vine Stratum (Plot size: 5m)  Lowica paper (a)  15 FACU  Hydrophytic Vegetation Present? Yes No Vegetation Present? Yes No Vegetation					Definitions of Four Vegetation Strata:
height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 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 (Plot size: 5m)  Lowica popular  15 FACU  Hydrophytic Vegetation Present? Yes No		-			
Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.    Moody Vine Stratum (Plot size: 5m)   15					
9					neight.
than 3 in. DBH and greater than or equal to 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 (Plot size:	8				Sapling/Shrub - Woody plants, excluding vines, less
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size:	9				than 3 in. DBH and greater than or equal to 3.28 ft (1
Woody Vine Stratum (Plot size: 50% of total cover: 47.5 20% of total cover: 15	10				m) tall.
Woody Vine Stratum (Plot size:	11	-			Herb - All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 5m)  1. Lonciera japaica 15 FACU  2					
Noody Vine Stratum (Plot size: 37m)  1. Loncica japaica 15 FACU  2		5 20% of	total cover.	17_	Woody vine - All woody vines greater than 3 28 ft in
1. Loncira japaria 15 FACU 2	Woody Vine Stratum (Plot size: 5m)		,		
5Vegetation Present? YesNo	1. Lonicera japonica	15		FACU	
5Vegetation Present? YesNo	2.				
5	3.				
5	4				
50% of total cover: 1.5 = Total Cover   Present? Yes No V	5				
50% of total cover: 1.5 20% of total cover: 3	v	15	- Tatal Caus		
	50% of total cover: 15				
Remarks: (Include photo numbers here or on a separate sheet.)			total cover.		
	Remarks: (Include photo numbers here or on a separate s	neet.)			
					1

Profile Des	cription: (Describe	to the depth	needed	to docu	ment the i	indicator	or confirm	the absen	ce of indic	cators.)
Depth	Matrix Color (moist)	<u></u> %	Color (r		ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
(inches) D ≈ 3	10 YR 5/1		OYR :		2180	Туре	LOC	S	200	Remarks
4-5					4-4		MA		3	
4-2	10YR 5/1	95	OYR	2/8		C	701	5CL	£	
									-	
									- 19	
					-					
									-	
ir C-C			advocad N	Antain MA	C-Masks	Cand Ca		21	DI =Dara I	( false - MacMarch
Hydric Soil	oncentration, D=Dep	etion, Kivi=Ki	eaucea i	viatrix, ivi	5=IVIasked	Sand Gra	ains.			Lining, M=Matrix. r Problematic Hydric Soils <sup>3</sup> :
Histosol		[	Dar	k Surface	e (S7)					ck (A10) (MLRA 147)
	pipedon (A2)					ce (S8) (N	ILRA 147,	148)		airie Redox (A16)
	istic (A3)	[			urface (S9)		47, 148)		•	147, 148)
	en Sulfide (A4)	[			ed Matrix (	F2)		님		Floodplain Soils (F19)
EST STATE	d Layers (A5) uck (A10) (LRR N)	[		leted Ma	trix (F3) Surface (F	·6\		님	The second second	136, 147) Ilow Dark Surface (TF12)
	d Below Dark Surface	e (A11)			rk Surface			닏		plain in Remarks)
The second second	ark Surface (A12)				essions (Fi				100 St. St. St. St.	Commence of the Annal of Care
	Mucky Mineral (S1) (L	.RR N,			ese Mass	es (F12) <b>(I</b>	LRR N,			
1 1	A 147, 148)	Ì		VILRA 13		**! D. 40	0 400)	31.		The decide Committee and
	Gleyed Matrix (S4) Redox (S5)	Ī			ace (F13) (		6, 122) (MLRA 14)			of hydrophytic vegetation and drology must be present,
	Matrix (S6)	Ì					A 127, 147	-		urbed or problematic.
	Layer (if observed):									
Type:	Rock		_							/
Depth (in	ches):S		-2					Hydric Sc	il Presen	t? Yes No
Remarks:										
-	2 . 1	1		1			1	1	0	
~	soil mo	iy has	R	beer	n m	NEC	1 u	10 +	200	7
-	_	1					1	, ,		
	Surfa	7		16	0.00					
	Surha	ce L	113	yaru	CAN CK					
	0									

WETLAND DETERMINATION DATA FORM – Eastern Mountains and Piedmont Region
Project/Site: Markin County Soler City/County: Markin County Sampling Date: 115/2020
Applicant/Owner: Savion State: KY Sampling Point: WAS 95
Investigator(s): Section, Township, Range: NA
Landform (hillslope, terrace, etc.):
Subregion (LRR or MLRA):LRBN Lat:
Soil Map Unit Name: Fir Fundary For point Layring soils, 30-80% store, story NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No  No  No  Remarks:
Welland AY. PEM
HYDROLOGY
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)
✓ Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16)
Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8)
Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1)
Iron Deposits (B5) Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)  Shallow Aquitard (D3)
Water-Stained Leaves (B9)  Microtopographic Relief (D4)
Aquatic Fauna (B13) FAC-Neutral Test (D5)
Field Observations:
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:
Hydrology is driven by Surface Run of F.
*
· ·

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:)	% Cover	Species?		Number of Dominant Species	- 1
1				That Are OBL, FACW, or FAC:(A	(4
2					1
-			)	Total Number of Dominant	
3				Species Across All Strata: (E	3)
4				Percent of Dominant Species	
5.			-	That Are OBL, FACW, or FAC:(A	A/B)
6.				That Ale Obe, I Novi, of I No.	ا (۳
			-	Prevalence Index worksheet:	
7	_			Total % Cover of: Multiply by:	
		= Total Cove		OBL species x1 =	- 1
50% of total cover:	20% of	total cover:			
Sapling/Shrub Stratum (Plot size; 15 m)	_			FACW species x 2 =	- 1
1. Platanus occidentales	5		FALW	FAC species x 3 =	- 1
		V		FACU species x 4 =	
2				UPL species x 5 =	- 1
3					,, l
4			T-	Column Totals: (A) (	(B)
5				Drevelance lades: - D/A -	
6				Prevalence Index = B/A =	
				Hydrophytic Vegetation Indicators:	
7				√ 1 - Rapid Test for Hydrophytic Vegetation	
8				2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0¹	
	5	Total Cove	er		
50% of total cover: 2.5				4 - Morphological Adaptations¹ (Provide suppor	ting
Herb Stratum (Plot size: 5 m )				data in Remarks or on a separate sheet)	
	40	/	621	Problematic Hydrophytic Vegetation¹ (Explain)	
1. Typha latifolia		-4-	OBL		- 1
	50		OBL	11adi-store of budgie and mademak budgeless some	.
3. Arthrason Hispidis	15		FAC	Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.	St
4		100000000000000000000000000000000000000			
				Definitions of Four Vegetation Strata:	- 1
5				Tree - Woody plants, excluding vines, 3 in. (7.6 cm	) or
6				more in diameter at breast height (DBH), regardless	
7				height.	
8				01210111311311311311311311311311311311311311313	- 1
9				Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than or equal to 3.28 ft (	
				m) tall.	,
10				,	- 1
11	~^			Herb - All herbaceous (non-woody) plants, regardle	ess
		Total Cove		of size, and woody plants less than 3.28 ft tall.	- 1
50% of total cover: 50%	20% of	total cover:_	20	Woody vine - All woody vines greater than 3.28 ft i	_
Woody Vine Stratum (Plot size:)				height.	"
1.			i	norgin.	
2	====				
- A/A					- 1
3. N					
4				Hydrophytic	
5				Vegetation	- 1
	-	Total Cove	er	Present? Yes V No	
50% of total cover:					- 1
Remarks: (Include photo numbers here or on a separate si	ieet.)				
					- 1
w.					
					1
					- 1

Depth	cription: (Describe Matrix			x Features						
(inches)	Color (moist)	_%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-1.5	10YR 3/2	100		_		_	SL	Lots,	of organic	neter
1.5-4	10YR 5/1	100		=			SL	Some	coal Spa	il
	Concentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ins.			ng, M=Matrix.	
<b>lydric Soil</b> Histoso	Indicators:		Dark Surface						roblematic Hyd A10) (MLRA 14	
Black H Hydrog Stratifie 2 cm M Deplete Thick D Sandy I MLR Sandy I Stripped	pipedon (A2) distic (A3) en Sulfide (A4) d Layers (A5) uck (A10) (LRR N) d Below Dark Surface dark Surface (A12) Mucky Mineral (S1) (L A 147, 148) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	_RR N,	Polyvalue Be Thin Dark Su Loamy Gleye Depleted Ma Redox Dark Su Depleted Dal Redox Depres Iron-Mangan MLRA 13 Umbric Surfa Piedmont Flo	rface (S9) ad Matrix (F trix (F3) Surface (F6 assions (F8 ese Masse 6) ce (F13) (I podplain So	(MLRA 14 6) (F7) 6) es (F12) (L MLRA 136 oils (F19) (	47, 148) .RR N, 5, 122) MLRA 141	F \ \ \ \ \ \	(MLRA 14 Piedmont Flo (MLRA 13 Pery Shallow Other (Expla	oodplain Soils (	(TF12) etation and resent,
Restrictive Type:	Layer (if observed):		ia .							
Depth (in	, 1 1/						Hydric Soil	Present?	Yes	No
Remarks:										
			×			4				
								+:		
			¥°							

WETLAND DETERMINATION DATA FORM – Eastern	Mountains and Piedmont Region
Project/Site: Marky County Solar City/County: Me	artin County Sampling Date: 11/5 2020
Applicant/Owner: Savior	State: 14Y Sampling Point: WAS -90
Investigator(s): J. Kiser C. Knabel Section, Townshi	
Landform (hillslope, terrace, etc.): road 51de Local relief (concave	
Subregion (LRR or MLRA): LRRN Lat: 37, 74453	
Soil Map Unit Name: F:F: Avelback, Faicpoint, Kaymine soils, 30-30% sla	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
	Are "Normal Circumstances" present? Yes No
	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling po	int locations, transects, important reatures, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?  Remarks:  Is the San within a W	. 1
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Drainage Patterns (B10)
Saturation (A3) Oxidized Rhizospheres on Living Water Marks (B1) Presence of Reduced Iron (C4)	The state of the s
Sediment Deposits (B2)  Recent Iron Reduction in Tilled Signature	Dry-Season Water Table (C2) oils (C6) Crayfish Burrows (C8)
Drift Deposits (B3) Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)	Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Microtopographic Relief (D4)
Aquatic Fauna (B13)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	./
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes NoV
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspec	ctions), if available:
6 4	
Remarks:	

	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?	-	Number of Dominant Species
1. Alnus vincana		_/_	FALU	That Are OBL, FACW, or FAC: (A)
			_	Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:
6				mat Are Obe, FAOW, OFFAO.
				Prevalence Index worksheet:
7	-10-			Total % Cover of:Multiply by:
		= Total Cov		
50% of total cover: 7.5	5 20% of	total cover:	3	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15M)				FACW species x 2 =
1. Klegnus Ymbellata	10		UPL	FAC species x 3 =
1. ASIEGRADS VASCITATO	10	-4		
2. Uriodindron tulipitura	_5		FACU	FACU species x 4 =
3				UPL species x 5 =
				Column Totals: (A) (B)
4				
5				Prevalence Index = B/A =
6				
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
	25	= Total Cov	er	
50% of total cover: 12.	5 20% of	total cover	5	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5791 )		total cover.		data in Remarks or on a separate sheet)
Hero Stratum (Plot size:	1-	/	<i>-</i>	Problematic Hydrophytic Vegetation¹ (Explain)
1. Schizachyrium scoparium	15		FACU	residing try dropiny to vegetation (Explain)
2. lespedena Cuneata	10	/	FALU	
3. Schedonerous arundinacea	15	1	FALU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
O - U				be present, unless disturbed or problematic.
4. Packera anonyma			UPL	Definitions of Four Vegetation Strata:
5. Solidago neuralis	5		UPL	
6. Ambrosia artemisifalia	10		FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7. Fridens Flaurs			FALU	more in diameter at breast height (DBH), regardless of
		-		height.
8. Engeron shigosus			FACU	Sapling/Shrub - Woody plants, excluding vines, less
9. Solidago allessima	5		FAW	than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
	-			, -=
11,				Herb - All herbaceous (non-woody) plants, regardless
		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 37,6	5 20% of	total cover:	15	
Woody Vine Stratum (Plot size:)	7)			Woody vine – All woody vines greater than 3.28 ft in
				height.
1				
2				
3/\/ / /				
4				
				Hydrophytic
5			-	Vegetation
	=	= Total Cove	er	Present? Yes No _V
50% of total cover:	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	theet \			
include proto numbers here or on a separate s	silect.)			
				200

COII		
	•	

TOTAL PROPERTY AND REPORTED	cription: (Describe t	to the depth n				or confirm	the absence	of indicators	.)	
Depth (inches)	Matrix Color (moist)	% 0	Redo Color (moist)	x Features %	Type <sup>1</sup>	Loc²	Texture		Remarks	
0-4	10YR 4/2	100	rotor (motor)		1,100			No me		
0-4	1018412	100					311 COLUM	100 7110	באדונ	
-										
·										- 14
								E		
		b.								
A										
-										
¹Type: C=Co	oncentration, D=Depl	etion, RM=Red	uced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: PL	=Pore Lining tors for Prot		tric Soils <sup>3</sup> :
			Dowle Curfore	(07)					_	
Histosol		-	_ Dark Surface		0 (80) /50	H DA 447		cm Muck (A1	10,300	1)
Black Hi	pipedon (A2)	_	<ul><li>Polyvalue Be</li><li>Thin Dark Su</li></ul>					oast Prairie R (MLRA 147,		
	n Sulfide (A4)	-	_ Loamy Gleye			-1, 140)		edmont Floor		F19)
	Layers (A5)	_	_ Depleted Mat		-/			(MLRA 136,		10)
	ck (A10) (LRR N)	_	Redox Dark S		6)			ery Shallow D		(TF12)
	Below Dark Surface	(A11)	_ Depleted Dar	•				her (Explain		, ,
	ark Surface (A12)	_	_ Redox Depre						•	
Sandy M	lucky Mineral (S1) (L	RR N,	_ Iron-Mangane	ese Masse	es (F12) (I	LRR N,				
MLRA	147, 148)		MLRA 130	6)						
12-11-11	leyed Matrix (S4)	_	_ Umbric Surfa					cators of hydr		
	edox (S5)	_	_ Piedmont Flo					land hydrolog		
	Matrix (S6)	<u> </u>	Red Parent M	Material (F2	21) <b>(MLR</b> /	A 127, 147	') unle	ess disturbed	or problema	tic.
	ayer (if observed):									
	Bedrock									/
Depth (inc	ches):4"						Hydric Soil	Present?	/es	No 🔽
Remarks:										
M.										
1										

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region Project/Site: Martin County Solar City/County: Martin County Sampling Date: N 5 2020 Applicant/Owner: Savion State: KY Sampling Point: WAS - 97 Investigator(s): J. Kiser C. Knabel Landform (hillslope, terrace, etc.): roads, de Local relief (concave, convex, none): Concave Slope (%): Subregion (LRR or MLRA): LRRN Lat: 37,745396 Datum: NAD83/K-1F Long: -82,451966 Soil Map Unit Name: F.F. Fivebock, Fairpoint, Kaymine Soils, 30 8090 store, 5+0-1 NWI classification: NA No \_\_\_\_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes V Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Yes No Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks Wetland AZ PEM **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) True Aquatic Plants (B14) High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Moss Trim Lines (B16) Saturation (A3) Oxidized Rhizospheres on Living Roots (C3) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Field Observations: Yes \_\_\_\_ No V \_\_ Depth (inches):\_ Surface Water Present? Water Table Present? Wetland Hydrology Present? Yes Saturation Present? No 💆 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Concare Basin

To Charles (DLI)	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:(A)
2				Total Number of Developed
3				Total Number of Dominant Species Across All Strata: (B)
A I I I I				Species Across Air Strata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6			100	
7				Prevalence Index worksheet:
	=	Total Cove	ar.	Total % Cover of: Multiply by:
50% of total cover:				OBL species x 1 =
50% of total cover.	20% 01	lotal cover.		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15M)  1. Froting 5 pensylvanca			_	
1. Frohing 5 pensylvanca	_5		FACU	FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
				Column Totals: (A) (B)
4				, ,,
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				The state of the s
				2 - Dominance Test is >50%
9,	-			3 - Prevalence Index is ≤3.01
		Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 2,5	20% of t	otal cover:		data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5 <sup>M</sup> )	41			
. 1	40	/	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Juneus et fusus	35	/	FACU	
3. Cyprus Shigosus		/		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.04 1003 500000003	- Euro		Charles State of the Control of the	be present, unless disturbed or problematic.
4 Symphiatrichum du mosum			NO. C. CONTRACTOR III	Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7,				more in diameter at breast height (DBH), regardless of height.
				neight
8			11	Sapling/Shrub - Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	90 =	Total Cove	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45		otal cover:		, Parallessa
Woody Vine Stratum (Plot size:)				Woody vine – All woody vines greater than 3,28 ft in
voody vine Stratum (Flot size)				height.
1				
2				
3				
4				
5.			2	Hydrophytic
5.				Vegetation Present? Yes No
500/- 51 - 1		Total Cove		100
50% of total cover:	_ 20% of t	otal cover:_		
Remarks: (Include photo numbers here or on a separate sh	neet.)			
				1
				The state of the s
		×		

Depth	Matrix		pth needed to docum	x Feature:				
inches)	Color (moist)	%	Color (moist)	_%_	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
1-6	10YR 5/1	92	SYR 5/6.	8	C	M	SCL	
1-8	10YR 4/1	80	7.5 YR 5/6	20	<u>C</u>	M	CL	
		pletion, RN	//=Reduced Matrix, MS	=Masked	Sand Gra	ins.		L=Pore Lining, M=Matrix.
	Indicators:							ators for Problematic Hydric Soils <sup>3</sup> :
Black H Hydroge Stratifie 2 cm Mi Deplete Thick D Sandy M MLR Sandy G Sandy F Stripped	pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) uck (A10) (LRR N) d Below Dark Surfac ark Surface (A12) Mucky Mineral (S1) ( A 147, 148) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)	LRR N,	Dark Surface Polyvalue Bel Thin Dark Sur Loamy Gleyed Depleted Mat Redox Dark S Depleted Darl Redox Depres Iron-Mangane MLRA 136 Umbric Surfac	ow Surface (S9) d Matrix (I rix (F3) Gurface (F6 k Surface essions (F6 esse Masse 6) ce (F13) ( codplain Se	(MLRA 1 F2) 6) (F7) 8) es (F12) (L MLRA 130 bils (F19)	47, 148) -RR N, 6, 122) (MLRA 14	, 148)	cm Muck (A10) (MLRA 147) coast Prairie Redox (A16) (MLRA 147, 148) iedmont Floodplain Soils (F19) (MLRA 136, 147) fery Shallow Dark Surface (TF12) other (Explain in Remarks) icators of hydrophytic vegetation and tland hydrology must be present, less disturbed or problematic.
Type:	Budrock / Grove	Q						/
Depth (in	ches):						Hydric Soil	Present? Yes No No

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region Project/Site: Markin County Solar City/County: Markin County Sampling Date: 11 5 2020 Applicant/Owner: Savion State: KY Sampling Point: WAS-98 Investigator(s): J. Kiser, C. Knabel Landform (hillslope, terrace, etc.): roads.de Local relief (concave, convex, none): None Slope (%): Subregion (LRR or MLRA): LARN Lat: 37.745441 Long: -82.451898 Datum: (VAD83 (INTRS) Soil Map Unit Name: FiF: Fivebock, Forpoint, Kaymac Soil 5, 30-80% slope, Stony NWI classification: NA Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_ (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes \_ < Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Yes No No Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Upland Sample Point for Welland AZ + BA. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) Moss Trim Lines (B16) Saturation (A3) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Iron Deposits (B5) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aguitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) Aquatic Fauna (B13) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Depth (inches):\_\_\_\_\_ Yes \_\_\_\_ No \_\_\_\_ Depth (inches):\_\_\_\_\_ Water Table Present? Wetland Hydrology Present? Yes No 1 Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No Hydrology

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4. A11 H				
1017				Percent of Dominant Species That Are ORL FACIAL or FAC:
	-			That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7		-		Total % Cover of: Multiply by:
500/		= Total Cove		OBL species x 1 =
50% of total cover:	20% of	total cover:_		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15m)		/		1
1 Eleagous umbellata	50		UPL	FAC species x 3 =
2,				FACU species x 4 =
3,				UPL species x 5 =
4				Column Totals: (A) (B)
5				
6				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
7		-		1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.01
		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 25	20% of	total cover:_	10	data in Remarks or on a separate sheet)
Herb Stratum (Plot size:)	-	/		Problematic Hydrophytic Vegetation¹ (Explain)
1. Lespedega Cuneata	55		FACU	Problematic Hydrophytic Vegetation (Explain)
2. Solidagio al tassima	10_		UPL	1
3. Eriquen 5 higusus	5		FALU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Schedoneroup around: nacen	20	/		
5	A 17			Definitions of Four Vegetation Strata:
6				Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub - Woody plants, excluding vines, less
9,				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
100	90 =	Total Cove	r	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45	20% of	total cover:_	18	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)	42			height.
1. Lonicera japonica	10	/_	FACU	
2				
3.				
4				
5				Hydrophytic Vegetation
	20	Total Cove		Present? Yes No
50% of total cover: <b>10</b>		total cover:_		
		total cover		
Remarks: (Include photo numbers here or on a separate s	neet.)			
				<i>y</i> .

Depth	Matrix			x Features				
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc2	Texture	Remarks
7-4	10 YR 4/2	100					S.11-Loum	
					-			
				-				
				-				
	<del></del>			-			-	
	oncentration, D=Dep	letion, RM=R	Reduced Matrix, M	S=Masked	Sand Gra	ains.		ore Lining, M=Matrix.
	Indicators:							for Problematic Hydric Soils <sup>3</sup> :
Histosol	8 8		Dark Surface	5) 5)	(00) (11)			Muck (A10) (MLRA 147)
_	pipedon (A2)		Polyvalue Bo				The second second	Prairie Redox (A16)
	istic (A3) en Sulfide (A4)		Loamy Gley			47, 148)		LRA 147, 148) nont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		2)			.RA 136, 147)
	ick (A10) (LRR N)		Redox Dark		5)			Shallow Dark Surface (TF12)
	d Below Dark Surfac	e (A11)	Depleted Da					(Explain in Remarks)
	ark Surface (A12)		Redox Depr					
Sandy N	lucky Mineral (S1) (L	RR N,	Iron-Mangar	ese Masse	s (F12) (I	RR N,		
MLR/	4 147, 148)		MLRA 13	(6)				
	Sleyed Matrix (S4)		Umbric Surfa					rs of hydrophytic vegetation and
	Redox (S5)		Piedmont Fl				5	hydrology must be present,
	Matrix (S6)		Red Parent	Material (F2	1) (MLR	4 127, 147	unless	disturbed or problematic.
	Layer (if observed):							
Type:(	ches): <u>4"</u>						Hydric Soil Pres	sent? Yes No
	cries).						Trydric doi: 1 1es	Sciii: 163 No V
emarks:								

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont Region Project/Site: Markin County Solar City/County: Markin County Applicant/Owner: Savion Sampling Point: WA5- 99 Investigator(s): J. Kiser C, Knabel \_\_\_\_\_ Section, Township, Range: NA Landform (hillslope, terrace, etc.): Ronde 1 de Local relief (concave, convex, none): \_\_\_Сточе Subregion (LRR or MLRA): \_\_\_\_\_\_\_ Lat: \_\_\_\_\_\_\_\_ Long: \_-81, 452213 Soil Map Unit Name: F:F: Fixebock, Fa: rooint & Knywine Soil, 30-8090 5 bpc, 510ny NWI classification: N/A Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area Hydric Soil Present? within a Wetland? Yes V Wetland Hydrology Present? Remarks Welland BA **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Oxidized Rhizospheres on Living Roots (C3) Saturation (A3) Moss Trim Lines (B16) Water Marks (B1) Presence of Reduced Iron (C4) Dry-Season Water Table (C2) Sediment Deposits (B2) Recent Iron Reduction in Tilled Soils (C6) Crayfish Burrows (C8) Drift Deposits (B3) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Other (Explain in Remarks) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Microtopographic Relief (D4) FAC-Neutral Test (D5) Aquatic Fauna (B13) Field Observations: Surface Water Present? Depth (inches):\_ Water Table Present? Wetland Hydrology Present? Yes Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Absolute   Dominant Indicator   Section   Se	TEGETATION (Four Grata) - 000 ocionano i		piantoi		eampling to one. Vorto
That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata  (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (ARB) Percent of Dominant Species That Are OB	25 W 40 - 10 - 1				Dominance Test worksheet:
Total Number of Dominant Species Across Al Strata: [8] Species Across Al Strata: [8] Species Across Al Strata: [8] Percent of Dominant Species That Are OBL. FACW, or FAC: [A/B] Prevalence Index worksheet: Total % Cover of. [A/B] Multiply by. OBL Species [A/B] Species	Tree Stratum (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
Species Across All Strata: (B)  Percent of Dominant Species That Are OBL. FACW, or FAC: (A/B)  Prevalence Index worksheet: Total % Cover of. Multiply br.  OBL. Species x 2 = FAC species x 3 = FAC species x 4 = UPL species x 4 = UPL species x 5 = Column Totals: (A) (B)  Prevalence Index worksheet: Total % Cover of. Multiply br.  OBL species x 2 = FAC species x 3 = FAC species x 4 = UPL species x 5 = Column Totals: (A) (B)  Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators of Hydric soil and welland hydropoly must be present, unless disturbed or problematic between the present, unless disturbed or problematic between the present, unless disturbed or problematic separate sheet) 1 - Total Cover 1 - Total	1,				That Are OBL, FACW, or FAC:(A)
Species Across All Strata: (B)  Percent of Dominant Species That Are OBL. FACW, or FAC: (A/B)  Prevalence Index worksheet: Total % Cover of. Multiply br.  OBL. Species x 2 = FAC species x 3 = FAC species x 4 = UPL species x 4 = UPL species x 5 = Column Totals: (A) (B)  Prevalence Index worksheet: Total % Cover of. Multiply br.  OBL species x 2 = FAC species x 3 = FAC species x 4 = UPL species x 5 = Column Totals: (A) (B)  Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Indicators of Hydric soil and welland hydropoly must be present, unless disturbed or problematic between the present, unless disturbed or problematic between the present, unless disturbed or problematic separate sheet) 1 - Total Cover 1 - Total	2				
Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)  Prevalence Index worksheet: Total & Cover of Multiphy by:  OBL species		. —			The state of the s
Fercent of Dominant Species (A/B)  That Arr OBL, FAROW, or FAC: (A/B)  Frevalence Index worksheet:  Total % Cover of Multiply by:  OBL species	3. ////	. — —		-	Species Across All Strata: (B)
That Are OBL, FOW, or FAC: (A/B)  7.	4				Descent of Deminent Consider
Frevalence Index worksheet:  Total % Cover of Multiply by:  OBL species	5.				
Prevalence Index worksheet:   Total Scover   Solver   S					That Ale OBL, FACVI, of FAC. (A/B)
Total Cover of Multiply by.  5	0,				Prevalence Index worksheet:
Sapilina/Shrub Stratum (Plot size   15m   5	7				Section 1
Sablina/Shrub Stratum (Plot size: 5M 5 PALW FAC Species x 3 = FAC species x 3 = FAC species x 3 = FAC species x 4 = UPL species x 4 = UPL species x 4 = UPL species x 5 = Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation Species x 5 = Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation x 3 - Prevalence Index is 53.0 d			= Total Cove	er	
FACV species   X 2 =   FAC species   X 3 =   FACV species   X 3 =   FACV species   X 4 =   FACV species   X 5 =	50% of total cover	20% of	total cover:		OBL species x 1 =
Fact species   x 3 =   Fact species   x 4 =					FACW species x 2 =
Salum ware   10				4	
Column Totals:	1. Hrancinus pensulvanca			FACW	
Column Totals:	2. Salue mara	10		OBL	FACU species x 4 =
Column Totals:	2 Platering grandutales	5			UPL species x 5 =
Prevalence Index = B/A = Hydrophytic Vegetation Indicators:  1. Rapid Test for Hydrophytic Vegetation 2. Dominance Test is >50% 3. Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1. Rapid Test for Hydrophytic Vegetation 2. Dominance Test is >50% 3. Prevalence Index = SJ.0! 4. Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation! (Explain)  1. Auman Indiposition 1. Auman Indiposi	2. LONGONDIA DE EN BANGONAI			MCm	
Herb Stratum (Plot size:	4				Column Totals: (A) (B)
Herb Stratum (Plot size:	5.				Developed by Str
7.					
7 8.	0				Hydrophytic Vegetation Indicators:
2 - Dominance Test is >50%  3 - Prevalence Index is \$3.0"  4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation' (Explain)  1 - Hornwan Nicolate  30 - FALL  30 - FALL  4 - Marphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation' (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree - Woody plants, excluding vines, as in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 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 (Plot size:	7		-		
9	8.				
Saping/Shrub - Woody Vine Stratum (Plot size:)   Woody Vine Stratum (Plot size:)   Solve of total cover:					
Solid of total cover:   20% of total cover:   4	9	4.0			3 - Prevalence Index is ≤3.0 <sup>1</sup>
data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation (Explain)  1					4 - Morphological Adaptations (Provide supporting
Problematic Hydrophytic Vegetation (Explain)  Problematic Hydrophytic Vegetation (Explain)  Problematic Hydrophytic Vegetation (Explain)  Problematic Hydrophytic Vegetation (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Woody Vine Stratum (Plot size:)  Woody Vine Stratum (Plot size:)  ### Woody Vine Stratum (Plot size:)  #### Hydrophytic Vegetation Present? Yes No	50% of total cover:/D	20% of	total cover:_	4	
Problematic Hydrophytic Vegetation '(Explain)  2	Herb Stratum (Plot size: 5 m)				
Thickness of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	man also amon Totalia	40		A0.1	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Arthrush Niepidis 4. Symphic frichum 20mosum 5. Cuprus Singosum 6. Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  8. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  10. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 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 (Plot size:)  1. Woody Vine Stratum (Plot size:)  4	1. IN DIAD. CAMPULATIONAL		-		
3. Arthrush Niepidis 4. Symphic frichum 20mosum 5. Cuprus Singosum 6. Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  8. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  10. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 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 (Plot size:)  1. Woody Vine Stratum (Plot size:)  4	2. JEHARAD CARPANANS	30			11-disabous of budgies - 11 and contract budgets account
Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 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 (Plot size:)  Woody Vine Stratum (Plot size:)  = Total Cover	3. Arthruson hispidis	15		FAC	
5 Acu 6. Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 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 (Plot size:)  Woody Vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No	1 Complete to the Almost ma	E			
Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  8.					Definitions of Four Vegetation Strata:
more in diameter at breast height (DBH), regardless of height.  Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 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 (Plot size:	5. Lypnus Shigosus	_ 5_		FIACU	
7	6. 31				
8					
9					neight.
9	8				Sanling/Shrub - Woody plants excluding vines less
10	9.				
Herb – All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft tall.  Woody Vine Stratum (Plot size:)  Woody Vine Stratum (Plot size:)  Herb – All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No					
Woody Vine Stratum (Plot size:)  Woody Vine Stratum (Plot size:)	0				,
Woody Vine Stratum (Plot size:)  Woody Vine Stratum (Plot size:)	11,				Herb - All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size:)  Woody Vine Stratum (Plot size:)  Woody Vine — All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present?  Yes No		95	Total Cove	r	
Woody Vine Stratum (Plot size:)  1	50% of total cover: 47.	5 20% of			***************************************
1		V.1	,_		
5	voody vine Stratum (Plot size)				height.
5	1				
5	2 1/4				
5	2 /V/I				
5	J				
5	4				Hydrophytic
= Total Cover Present? Yes No	5.				Vegetation
50% of total cover: 20% of total cover:			Total Cour	r	Present? Yes V No
	EON/ of total accord				
Remarks: (Include photo numbers here or on a separate sheet.)			total cover:_		
	Remarks: (Include photo numbers here or on a separate s	sheet.)			
Comment . A					
					C) com a A

Profile Des	cription: (Describe	to the dep	oth needed to docum	nent the i	ndicator	or confir	m the absence of indicators.)
Depth	Matrix			Features		. ,	
(inches)	Color (moist)	_%_	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture Remarks
0-6	104R5/1	90	5YR416	10	_0_	PL	Sill- auglesm Oxidized Physphias
7-8	DABAS	47	548 416	_3_	_0	PL	Silly Clif hom
		-					
						Q	
					-	-	
							. ———
						-	
		letion, RM	=Reduced Matrix, MS	=Masked	Sand Gr	ains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface		(00) (-	U D 4 225	2 cm Muck (A10) (MLRA 147)
	pipedon (A2) listic (A3)		Polyvalue Bel Thin Dark Sui				(, 148) Coast Prairie Redox (A16) (MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleyer			47, 140)	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Bandatad Mat		-/		(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark S		6)		Very Shallow Dark Surface (TF12)
The state of the s	d Below Dark Surfac	e (A11)	Depleted Dari				Other (Explain in Remarks)
	ark Surface (A12)	DD 11	Redox Depre			DD 11	
	Mucky Mineral (S1) (I <b>A 147, 148)</b>	LKK N,	Iron-Mangane MLRA 136		es (F12) (	LKK N,	
	Gleyed Matrix (S4)		Umbric Surface		MLRA 13	6. 122)	<sup>3</sup> Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flor				- , , -
	d Matrix (S6)		Red Parent M				
Restrictive	Layer (if observed):						
Type:			-				/
Depth (in	ches):						Hydric Soil Present? Yes V No
Remarks:							1.11
			1				