# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek	City/County: Canajoharie, Montgomery County	Sampling Date: 2022-Aug-15
Applicant/Owner: SED	State: NY	Sampling Point: W-ABL-01_PFO-2
Investigator(s): Abi Light, Ella de Bruijn	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, none):	Concave Slope (%): 1 to 3
Subregion (LRR or MLRA): LRR L	Lat: 42.9022875851 Long	-74.5545781274 Datum: WGS84
Soil Map Unit Name: Rock outcrop-Farmington as	sociation, very steep (RLF)	NWI classification:
Are climatic/hydrologic conditions on the site typical	for this time of year? Yes _∠_ No (If n	o, explain in Remarks.)
	significantly disturbed? Are "Normal Circums naturally problematic? (If needed, explain an	tances" present? Yes _✔ No ny answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No							
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🧹 No					
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ABL-01					
Remarks: (Explain alternative procedures here or in a separate report)								
Covertype is PFO. Area is wetland, all three v	vetland parameters are p	resent.						

## HYDROLOGY

<ul> <li></li></ul>	Wetland Hydrology Indicators: Primary Indicators (minimum of or Surface Water (A1) High Water Table (A2)	ne is required; check all th Water-S Aquatic	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10)		
Surface Water Present?       Yes No       Depth (inches):          Water Table Present?       Yes No       Depth (inches):          Saturation Present?       Yes No       Depth (inches):          Saturation Present?       Yes No       Depth (inches):          (includes capillary fringe)	<ul> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Im</li> </ul>	Marl De Hydrog Oxidize Presenc Recent Thin Mu agery (B7) Other (B	eposits (B15) en Sulfide Odor (C1) d Rhizospheres on Living Root ce of Reduced Iron (C4) Iron Reduction in Tilled Soils (G uck Surface (C7)		<ul> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> </ul>
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 inspections), if available:					
Saturation Present? Yes No Depth (inches):   (includes capillary fringe)   Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Water Present?	Yes No 🟒	Depth (inches):		-
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table Present?	Yes No	Depth (inches):		Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Present?	Yes 🟒 No	Depth (inches):	0	_
	(includes capillary fringe)				
		auge, monitoring well, ae	rial photos, previous inspectic	ons), if	available:

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-01\_PFO-2

	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	2	
	· · · · · · · · · · · · · · · · · · ·	OBL	Are OBL, FACW, or FAC:	2	(A)
10	No	FAC	Total Number of Dominant Species	3	(B)
				66.7	(A/B)
				Multiply F	kv-
					<b>7</b> 0
80	= Total Cov	er	· · ·		180
			· · · · · · · · · · · · · · · · · · ·		30
50	Yes	FACU	·		
			· · · · · · · · · · · · · · · · · · ·		200
					0
					480 (B)
	·			2.2	
				Vegetation	
50	= Total Cov	er			
	-				
70	Yes	FACW			upportin
20	No	FACW			
			, , , , , , , , , , , , , , , , ,		
			,	, 0	y must be
			1	matic	
			_		
					lameter a
			-		Diland
					BH and
					ardlace of
					ar uless o
					00 ft in
					.0 11 11
110	= Total Cov	er			
			Hydrophytic Vegetation Present?	Yes 🟒 No	D
			-		
			-		
0	= Total Cov	or	-		
	% Cover           70           10           10           80           50           70           20	% Cover         Species?           70         Yes           10         No           10         No           20         Yes           50         Yes           20         No           20         No	% Cover         Species?         Status           70         Yes         OBL           10         No         FAC           10         Total Cover         Total Cover           50         Yes         FACU           50         Faccover         Total Cover           50         Total Cover         Total Cover           70         Yes         FACW           20         No         FACW           20         No         NI           10         Total Cover         Total Cover	% CoverSpecies?Status70YesOBL10NoFAC10NoFAC10NoFAC10NoFAC10NoFAC10NoFAC10NoFAC10NoFAC10NoFAC10NoFAC10NoFAC10NoFAC10NoFAC10FACPercent of Dominant Species That Are OBL, FACW, or FAC:10Prevalence Index worksheet:Image: Species	% Cover       Species?       Status       Number of Dominant Species That       2         70       Yes       OBL       Total Number of Dominant Species That       3         10       No       FAC       Across All Strata:       3         10       No       FAC       66.7         10       No       FAC       Prevalence Index worksheet:       66.7         10       So       Total % Cover of:       Multiply E       66.7         10       So       Yes       FACU       FACU species       90       x 2 =         FACU species       10       x 3 =       FACU species       50       x 4 =         10       So       Yes       FACU       FACU species       10       x 3 =         50       Fotal Cover       -       -       1- Rapid Test for Hydrophytic Vegetation         20       No <t< td=""></t<>

SOIL

Depth	Matrix		Redox					bsence of indicat	
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 6	10YR 2/1	100					Clay Loar	m	
6 - 15	10YR 4/1	90	7.5YR 5/6	10	С	М	Clay		
15 - 20	10YR 5/6	60	10YR 4/1	40	D	M	Clay		
			-						
vpe: C = 0	Concentration, D =	Depletio	on. RM = Reduced	d Mat	rix. MS =	Masked S	and Grains. <sup>2</sup> L	ocation: PL = Por	e Lining, M = Matrix.
	Indicators:	proce	,		.,				Problematic Hydric Soils <sup>3</sup> :
_Histoso			Polyvalue Be	elow S	urface (S	8) (LRR R,	MLRA 149B)		(A10) (LRR K, L, MLRA 149B)
_	pipedon (A2)		Thin Dark Su						(ATO) (LRR K, L, MILKA 149B) ie Redox (A16) (LRR K, L, R)
_	istic (A3)		Loamy Muck	ky Mir	eral (F1)	(LRR K, L)			y Peat or Peat (S3) <b>(LRR K, L, R)</b>
	en Sulfide (A4)		Loamy Gleye						ce (S7) (LRR K, L)
	d Layers (A5)		Depleted Ma					Polyvalue E	Below Surface (S8) (LRR K, L)
	d Below Dark Surf ark Surface (A12)	ace (A11	) Redox Dark Depleted Da					Thin Dark S	Surface (S9) <b>(LRR K, L)</b>
	Ark Surface (AT2) Aucky Mineral (S1)		Redox Depre					Iron-Manga	anese Masses (F12) <b>(LRR K, L, R)</b>
			Redux Depre	233101	15 (FO)			Piedmont F	loodplain Soils (F19) (MLRA 149B)
_ ,									(i i i i i i i i i i i i i i i i i i i
_ Sandy C	Gleyed Matrix (S4)							Mesic Spod	lic (TA6) <b>(MLRA 144A, 145, 149B)</b>
_ Sandy C _ Sandy F	Gleyed Matrix (S4) Redox (S5)							Mesic Spod Red Parent	lic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21)
_ Sandy C _ Sandy F _ Stripped	Gleyed Matrix (S4) Redox (S5) d Matrix (S6)							Mesic Spod Red Parent Very Shallo	lic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) w Dark Surface (TF12)
_ Sandy C _ Sandy F _ Strippe	Gleyed Matrix (S4) Redox (S5)							Mesic Spod Red Parent Very Shallo	lic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21)
_ Sandy C _ Sandy F _ Stripper _ Dark Su	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg	MLRA 14 getation	9B)	rolog	y must be	e present,	unless disturbe	Mesic Spod Red Parent Very Shallo Other (Expl	lic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) w Dark Surface (TF12) ain in Remarks)
_ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, I</b> of hydrophytic veg <b>Layer (if observed)</b>	MLRA 14 getation	9B)	rolog	y must be			Mesic Spod Red Parent Very Shallo Other (Expl ed or problematic	lic (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) w Dark Surface (TF12) ain in Remarks)
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#### Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k		City/County:	Canajoharie	e, Mor	ntgomery Co	unty	Sampling Date:	2022-Aug-15
Applicant/Owner: SI	ED					State: NY	,	Sampling Point:	W-ABL-01_PUB-1
Investigator(s): Abi L	ight, Ella de B	ruijn			Section	on, Township	, Range:		
Landform (hillslope, te	rrace, etc.):	Depression		Local re	elief (	concave, con	vex, none):	Concave	Slope (%): 1 to 3
Subregion (LRR or MLR	RA): LRR I	L			Lat: _	42.90230272	17 Long:	-74.5546735559	Datum: WGS84
Soil Map Unit Name:	Rock outcro	p-Farmington as	sociation, ver	y steep				NWI classifi	cation:
Are climatic/hydrologic	c conditions or	n the site typical	for this time	of year?		Yes 🟒 No	o (If no	o, explain in Rema	irks.)
Are Vegetation, Are Vegetation,		or Hydrology or Hydrology	0	5				tances" present? ny answers in Rem	

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No							
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🧹 No					
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-ABL-01					
Remarks: (Explain alternative procedures here or in a separate report)								
Covertype is PUB. Area is wetland, all three v	vetland parameters are p	resent.						

#### HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of or	he is required: check all the	at apply)		Secondary Indicators (minimum of two required)		
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> <li>Sparsely Vegetated Concave Su</li> </ul>	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Marl Deposits (B15)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roots (C3)     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils (C6)     Thin Muck Surface (C7) magery (B7) Other (Explain in Remarks)			<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Cravifish Burrows (C8)</li> </ul>		
Field Observations:						
Surface Water Present?	Yes 🟒 No	Depth (inches):	36	_		
Water Table Present?	Yes 🟒 No	Depth (inches):	0	Wetland Hydrology Present? Yes No		
Saturation Present?	Yes 🟒 No	Depth (inches):	0	_		
(includes capillary fringe)						
Describe Recorded Data (stream g	auge, monitoring well, aeri	ial photos, previous inspec	tions), if	available:		
Remarks:						

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-01\_PUB-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	3	( • )
1. Acer negundo	15	Yes	FAC	Are OBL, FACW, or FAC:	5	(A)
2. Fraxinus pennsylvanica	5	Yes	FACW	Total Number of Dominant Species	4	(B)
3				Percent of Dominant Species That		
4				- Are OBL, FACW, or FAC:	75	(A/B)
5				Prevalence Index worksheet:		
				- <u>Total % Cover of:</u>	Multiply E	<u>By:</u>
7				OBL species 100	x 1 =	100
	20	= Total Cov	er	FACW species 25	x 2 =	50
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 15	x 3 =	45
. Lonicera morrowii	10	Yes	FACU	FACU species 10	x 4 =	40
2				- UPL species 0	x 5 =	0
3.						
1.					(A)	235 (B)
5.				Prevalence Index = B/A =	1.6	
5				Hydrophytic Vegetation Indicators:	logatation	
7				1- Rapid Test for Hydrophytic	regetation	
	10	= Total Cov	er	2 - Dominance Test is >50%		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )		-		$\checkmark$ 3 - Prevalence Index is $\leq$ 3.0 <sup>1</sup>		
1. Lemna minor	100	Yes	OBL	4 - Morphological Adaptations		upportin
2. Impatiens capensis	10	No	FACW	- data in Remarks or on a separate sh		- 1 - 1 - 2 - 2
3. Bidens frondosa	10	No	FACW	Problematic Hydrophytic Vege		-
4.				Indicators of hydric soil and wetlan present uplace disturbed or proble	, 0	y must b
5.				present, unless disturbed or proble	matic	
				Definitions of Vegetation Strata:		
5				Tree – Woody plants 3 in. (7.6 cm) o		iameter a
7				breast height (DBH), regardless of h	-	DU and
3				Sapling/shrub – Woody plants less t		BH and
9				greater than or equal to 3.28 ft (1 m		
10				Herb – All herbaceous (non-woody) size, and woody plants less than 3.2		ardiess o
11						00 ft in
12				Woody vines – All woody vines grea		201111
	120	= Total Cov	er	height.		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Present?	Yes 🟒 No	0 0
1.						
2.				-		
3.				-		
4.				-		
	0	= Total Cov	or	-		
	0	- 10101 COV	CI			

SOIL

Depth       Matrix       Redox Features         (inches)       Color (moist)       %       Type1       Loc2       Texture       Remarks         0 - 12       10YR 2/2       100
0 - 12         10YR 2/2         100
12 - 20       2.5Y 4/1       90       2.5Y 6/6       10       Clay         Image: Clay in the second se
Image: Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils*:         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Depleted Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Denleted Below Dark Surface (S1)       Perleted Matrix (F3)
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)
Tric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)
Tric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)
Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (E6)
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (S8) (LRR K, L)         Deneleted Below Dark Surface (A11)       Redox Dark Surface (E6)       Polyvalue Below Surface (S8) (LRR K, L)
Histic Epipedon (A2)
Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)      < coust Hame Redox (A10) (LRR K, L)         Hydrogen Sulfide (A4)      < Loamy Gleyed Matrix (F2)      < 5 cm Mucky Peat or Peat (S3) (LRR K, L)         Stratified Layers (A5)      < Depleted Matrix (F3)      < Depleted Matrix (F3)          Depleted Relow Dark Surface (A11)       Redox Dark Surface (F6)      < Polyvalue Below Surface (S8) (LRR K, L)
Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (E6)       Polyvalue Below Surface (S8) (LRR K, L)
Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L Depleted Below Dark Surface (A11) Redox Dark Surface (E6) Polyvalue Below Surface (S8) (LRR K, L
Depleted Below Dark Surface (A11) Redox Dark Surface (E6)
Thin Dark Surface (S9) (I RR K L)
Thick Dark Surface (A12) Depleted Dark Surface (F/) Iron-Manganese Masses (F12) (J RR K
Sandy Mucky Mineral (S1) Redox Depressions (F8) Non-Mangarlese Masses (F12) (MRR, Piedmont Floodplain Soils (F19) (MLRA
Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 1
Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Red Parent Material (F21)
Dark Surface (C7) (LDD D. MLDA 140D)
_ Dark Surface (37) (LKK K, MLKA 1496) Other (Explain in Remarks)
dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
strictive Layer (if observed):
Type:No Hydric Soil Present? Yes _∠_ No
Depth (inches):

Hydrology Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek	City/County: Canajoharie, Montgomery County	Sampling Date: 2022-Aug-15
Applicant/Owner: SED	State: NY	Sampling Point: W-ABL-01_UPL-1
Investigator(s): Abi Light, Ella de Bruijn	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none):	None Slope (%): 1 to 10
Subregion (LRR or MLRA): LRR L	Lat: 42.9023643131 Long	-74.554498733 Datum: WGS84
Soil Map Unit Name: Rock outcrop-Farmington	association, very steep	NWI classification:
Are climatic/hydrologic conditions on the site typic	al for this time of year? Yes 🖌 No (If n	o, explain in Remarks.)
	significantly disturbed? Are "Normal Circums naturally problematic? (If needed, explain an	tances" present? Yes _✔ No ny answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedure	s here or in a separate repo	rt)	
Covertype is UPL.			

## HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of on</u>	e is required; check all th	<u>nat apply)</u>	Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> <li>Sparsely Vegetated Concave Surface</li> </ul>	Aquatic Marl De Hydroge Oxidized Presenc Recent I Thin Mu gery (B7) Other (E	itained Leaves (B9) Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Living Roots (C3) e of Reduced Iron (C4) Iron Reduction in Tilled Soils (C6) ick Surface (C7) Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations: Surface Water Present?	Yes No 🟒	Depth (inches):	
Water Table Present?	Yes No _	Depth (inches):	– _ Wetland Hydrology Present? Yes №
Saturation Present?	Yes No 🟒	Depth (inches):	_
(includes capillary fringe)			
	uge, monitoring well, ae	rial photos, previous inspections), if	available:
Remarks:			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-01\_UPL-1

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species Tha	t 2	
. Tilia americana	40	Yes	FACU	Are OBL, FACW, or FAC:	Z	(A)
. Carya ovata	30	Yes	FACU	Total Number of Dominant Specie	s 8	(B)
. Celtis occidentalis	20	Yes	FAC	Across All Strata:		(8)
				Percent of Dominant Species That	25	(A/B
				Are OBL, FACW, or FAC:		
				Prevalence Index worksheet:	N. A. Jahr I.	<b>D</b>
				- <u>Total % Cover of:</u>	<u>Multiply</u>	•
	90	= Total Cov	er	- OBL species 0	x1=	0
apling/Shrub Stratum (Plot size: <u>15 ft</u> )		-		FACW species 0	_ x 2 = _	0
. Lonicera morrowii	30	Yes	FACU	FAC species 40	_ ×3=	120
. Celtis occidentalis	20	Yes	FAC	- FACU species <u>122</u>	_ × 4 =	488
				UPL species 0	_ × 5 = _	0
				- Column Totals 162	(A)	608 (E
				Prevalence Index = B/A	= <u>3.8</u>	
				Hydrophytic Vegetation Indicators		
				1- Rapid Test for Hydrophytic	: Vegetatior	ו
	50	= Total Cov	er	2 - Dominance Test is > 50%		
l <u>erb Stratum</u> (Plot size: <u>5 ft</u> )		-		$3 - Prevalence Index is \le 3.0$		
. Circaea canadensis	10	Yes	FACU	4 - Morphological Adaptation		supporti
. Ageratina altissima	5	Yes	FACU	- data in Remarks or on a separate	-	
-	5	Yes	FACU	Problematic Hydrophytic Veg		
Parthenocissus quinquefolia Solidago canadensis	2	No	FACU	<ul> <li>Indicators of hydric soil and wetla</li> <li>present, unless disturbed or prob</li> </ul>	,	igy must i
				Definitions of Vegetation Strata:	lematic	
·				Tree – Woody plants 3 in. (7.6 cm)	or moro in	diamotor
·				breast height (DBH), regardless of		ulameter
·				Sapling/shrub – Woody plants less	-	DBH and
				greater than or equal to 3.28 ft (1		
				Herb – All herbaceous (non-wood		gardless o
0				size, and woody plants less than 3		-
1 2				Woody vines – All woody vines gre	ater than 3	.28 ft in
	22	= Total Cov	er	height.		
Voody Vine Stratum (Plot size: <u>30 ft</u> )		-	ci	Hydrophytic Vegetation Present?	Yes N	No 🖌
·				-		
				-		
 I.	·			-		
r	0	= Total Cov	or	-		
	0		CI			

SOIL

Profile Des Depth	cription: (Describe t Matrix	to the c	lepth needed to o Redox			indicato	r or confirm the a	bsence of indicators.)
(inches)		04				1002	Toxturo	Remarks
	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 5	2.5Y 3/1	95	7.5YR 4/4	5	<u> </u>	M	Loam	
5 - 16	10YR 4/4	98	2.5YR 3/4	2	С	M	Loam	
							-	
1Tupo: C = (	Concontration D - I	 Doplati	on RM - Roduco	- <u> </u>	riv MC -	Mackod	Sand Crains 2	ocation: DL - Doro Lining, M - Matrix
		Depieti		u ividi	.11, 115 =	wiasked		.ocation: PL = Pore Lining, M = Matrix.
Hydric Soil			Debasta	ا من ا	·			Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso			,				R, MLRA 149B)	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
	pipedon (A2) istic (A3)		Thin Dark Su					Coast Prairie Redox (A16) <b>(LRR K, L, R)</b>
	en Sulfide (A4)		Loamy Gleye	-		(LKK K, I	_)	5 cm Mucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
	ed Layers (A5)		Depleted Ma					Dark Surface (S7) <b>(LRR K, L)</b>
	d Below Dark Surfa							Polyvalue Below Surface (S8) (LRR K, L)
	ark Surface (A12)		Depleted Da			)		Thin Dark Surface (S9) (LRR K, L)
	Aucky Mineral (S1)		Redox Depre		-	,		Iron-Manganese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)			23510	13 (10)			Piedmont Floodplain Soils (F19) (MLRA 149B)
-	Redox (S5)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	d Matrix (S6)							Red Parent Material (F21)
	urface (S7) <b>(LRR R, N</b>							Very Shallow Dark Surface (TF12)
Dark SU	(11) (LKK K, IV	ILKA 14	·9D)					Other (Explain in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	etation	and wetland hyd	rolog	y must b	e preser	nt, unless disturbe	ed or problematic.
Restrictive	Layer (if observed):							
	Туре:		None	_		Hydric	Soil Present?	Yes No 🟒
	Depth (inches):			-				
Remarks:								

#### Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek	City/County:	Canajoharie, Montgomery Co	ounty	Sampling Date: 2	2022-Aug-15
Applicant/Owner: SED		State: N	Y	Sampling Point: W-	ABL-02_PEM-1
Investigator(s): Abi Light, Ella	a de Bruijn	Section, Township	o, Range:		
Landform (hillslope, terrace, et	tc.): Depression	Local relief (concave, cor	nvex, none):	Concave	Slope (%): 1 to 3
Subregion (LRR or MLRA):	LRR L	Lat: 42.90171218	23 Long:	-74.5530800518	Datum: WGS84
Soil Map Unit Name: Rock of	outcrop-Farmington association, ve	ry steep (RLF)		NWI classificat	ion:
Are climatic/hydrologic conditi	ons on the site typical for this time	of year? Yes N	o (If n	o, explain in Remark	s.)
Are Vegetation, Soil	_, or Hydrology significan	tly disturbed? Are "Norr	nal Circums	tances" present?	Yes 🟒 No
Are Vegetation, Soil	_, or Hydrology naturally	problematic? (If needed	d, explain ar	y answers in Remar	ks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:	W-ABL-02
Remarks: (Explain alternative procedur	es here or in a separate rep	ort)	
Covertype is PEM.			

## HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of or	- i			5
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Image</li> <li>Sparsely Vegetated Concave Surface</li> </ul>	Water-S Aquatic Marl De Hydrog Oxidize Presend Recent Thin Mu agery (B7) Other (f	Stained Leaves (B9) Fauna (B13) eposits (B15) en Sulfide Odor (C1) d Rhizospheres on Living R ce of Reduced Iron (C4) Iron Reduction in Tilled Soi uck Surface (C7) Explain in Remarks)		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream g	Yes No _ <b>_</b> Yes No _ <b>_</b> Yes _ <b>_</b> _ No auge, monitoring well, ae	Depth (inches): Depth (inches): Depth (inches): erial photos, previous inspe	0 ctions), if	Wetland Hydrology Present? Yes No available:
Remarks:				

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-02\_PEM-1

<u>Free Stratum</u> (Plot size: <u>30 ft</u> )		Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	4	(A)
		·		- Total Number of Dominant Species	5	(B)
				Percent of Dominant Species That		
·				- Are OBL, FACW, or FAC:	80	(A/B)
				Prevalence Index worksheet:		
		·		- <u>Total % Cover of:</u>	<u>Multiply</u>	<u> / By:</u>
				- OBL species 40	x 1 =	40
	0	= Total Cov	er	FACW species 75	x 2 =	150
apling/Shrub Stratum (Plot size: <u>15 ft</u> )	20		EA CL	FAC species 5	x 3 =	15
Lonicera morrowii	20	Yes	FACU	- FACU species 20	x 4 =	80
Celtis occidentalis	5	Yes	FAC	- UPL species 0	x 5 =	0
		·		- Column Totals 140	(A)	285 (B)
		·		Prevalence Index = B/A =	2	
		·		- Hydrophytic Vegetation Indicators:		
		·		1- Rapid Test for Hydrophytic		n
		·		- ∠ 2 - Dominance Test is >50%	0	
	25	= Total Cov	er	$\checkmark$ 3 - Prevalence Index is $\leq 3.0^{1}$		
<u>erb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Adaptation	s¹ (Provide	supporting
Leersia oryzoides	40	Yes	OBL	- data in Remarks or on a separate s		
. <u>Pilea pumila</u>	25	Yes	FACW	Problematic Hydrophytic Veg	etation <sup>1</sup> (E	xplain)
. Impatiens capensis	25	Yes	FACW	<sup>1</sup> Indicators of hydric soil and wetla	nd hydrolo	ogy must b
Bidens frondosa	20	No	FACW	_ present, unless disturbed or probl	ematic	
Circaea alpina	5	No	FACW	_ Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm)	or more in	diameter a
				breast height (DBH), regardless of	-	
				Sapling/shrub – Woody plants less		DBH and
				greater than or equal to 3.28 ft (1 r		
0				Herb – All herbaceous (non-woody		egardless o
1				size, and woody plants less than 3.		20 4 :
2				<ul> <li>Woody vines – All woody vines greater</li> <li>height.</li> </ul>	ater than :	3.28 It In
	115	= Total Cov	er			
<u>/oody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Present?	Yes 🟒	No
				_		
				_		
·				_		
·	0	= Total Cov	er			

SOIL

Matrix olor (moist) 10YR 2/1 10YR 3/1 10YR 4/2	%         -           100         -           100         -           80         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -	Redox Color (moist) 10YR 5/6		Type <sup>1</sup>	Loc <sup>2</sup>	Texture     Remarks       Muck
10YR 2/1 10YR 3/1 10YR 4/2	100 100		_			Muck Muck
10YR 3/1 10YR 4/2	100	10YR 5/6	20		San	Muck
10YR 4/2		10YR 5/6	20	C	M San	
		101K 3/0				
					·	
			_			
:			—			
entration, D = D	epletio	n, RM = Reducec	l Matr	rix, MS =	Masked Sand Grains.	. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.
ators:						Indicators for Problematic Hydric Soils <sup>3</sup> :
don (A2) (A3) ulfide (A4)		Thin Dark Su Loamy Muck Loamy Gleye	rface y Min d Ma	(S9) <b>(LRR</b> eral (F1) trix (F2)	R, MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L)
		•				Polyvalue Below Surface (S8) (LRR K, L)
						Thin Dark Surface (S9) (LRR K, L)
						Iron-Manganese Masses (F12) (LRR K, L, R)
				()		Piedmont Floodplain Soils (F19) <b>(MLRA 149B</b>
						Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
						Red Parent Material (F21)
	LRA 149	9B)				Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
/drophytic vege	tation a	and wetland hyd	rology	/ must be	e present, unless dist	urbed or problematic.
r (if observed):						
2:		None			Hydric Soil Present	? Yes 🖌 No
th (inches):						
ation of hydric s	oil was	observed.				
	) don (A2) (A3) ulfide (A4) yers (A5) low Dark Surfac urface (A12) y Mineral (S1) d Matrix (S4) x (S5) trix (S6) e (S7) (LRR R, Mi ydrophytic vege r (if observed): e: th (inches):	) don (A2) (A3) ulfide (A4) yers (A5) low Dark Surface (A11) urface (A12) y Mineral (S1) d Matrix (S4) x (S5) trix (S6) e (S7) (LRR R, MLRA 149 ydrophytic vegetation a r (if observed): e: th (inches):	) Polyvalue Be don (A2) Thin Dark Su (A3) Loamy Muck ulfide (A4) Loamy Gleye yers (A5) Depleted Ma low Dark Surface (A11) Redox Dark S urface (A12) Depleted Da y Mineral (S1) Redox Depre vd Matrix (S4) x (S5) trix (S6) e (S7) (LRR R, MLRA 149B) ydrophytic vegetation and wetland hydr r (if observed): e: None	Polyvalue Below S          on (A2)       Thin Dark Surface         (A3)       Loamy Mucky Min         ulfide (A4)       Loamy Gleyed Mariy         yers (A5)       Depleted Matrix (F         low Dark Surface (A11)       Redox Dark Surface         urface (A12)       Depleted Dark Surface         y Mineral (S1)       Redox Depression         rd Matrix (S4)       x (S5)         trix (S6)       e (S7) (LRR R, MLRA 149B)         ydrophytic vegetation and wetland hydrology         r (if observed):          e:      None         th (inches):	o Polyvalue Below Surface (S don (A2) Thin Dark Surface (S9) (LRR (A3) Loamy Mucky Mineral (F1) ulfide (A4) Loamy Gleyed Matrix (F2) yers (A5) Depleted Matrix (F3) low Dark Surface (A11) Redox Dark Surface (F6) urface (A12) Depleted Dark Surface (F7) y Mineral (S1) Redox Depressions (F8) d Matrix (S4) x (S5) trix (S6) e (S7) (LRR R, MLRA 149B) ydrophytic vegetation and wetland hydrology must be r (if observed): e: None th (inches):	Polyvalue Below Surface (S8) (LRR R, MLRA 149)          don (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         ulfide (A4)       Loamy Gleyed Matrix (F2)         yers (A5)       ✓ Depleted Matrix (F3)         low Dark Surface (A11)       Redox Dark Surface (F6)         urface (A12)       Depleted Dark Surface (F7)         y Mineral (S1)       Redox Depressions (F8)         id Matrix (S4)       x (S5)         trix (S6)       e (S7) (LRR R, MLRA 149B)         ydrophytic vegetation and wetland hydrology must be present, unless dist         r (if observed):       None         e:       None

Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k		City/County:	Canajoharie, M	ontgomery Count	у	Sampling Date:	2022-Aug-15	
Applicant/Owner: SI	ED				State: NY		Sampling Point:	W-ABL-02_UPL-1	
Investigator(s): Abi L	ight, Ella de B	ruijn		Sec	tion, Township, Ra	ange:			
Landform (hillslope, te	rrace, etc.):	Hillslope		Local relief	f (concave, convex	, none):	None	Slope (%):	1 to 10
Subregion (LRR or MLR	RA): LRR I	-		Lat:	42.9016902126	Long:	-74.553023758	Datum: WO	JS84
Soil Map Unit Name:	Rock outcrop	-Farmington as	ssociation, ver	ry steep (RLF)			NWI classifi	cation:	
Are climatic/hydrologic	conditions or	the site typical	for this time	of year?	Yes 🟒 No \_	(If no	o, explain in Rema	arks.)	
Are Vegetation,	Soil,	or Hydrology	significan	tly disturbed?	Are "Normal	Circums	tances" present?	Yes 🟒 No _	
Are Vegetation,	Soil,	or Hydrology	naturally	problematic?	(If needed, ex	plain an	y answers in Rem	narks.)	

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedure	s here or in a separate repo	rt)	
Covertype is UPL.			

#### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	<u>e is required; check all t</u>	<u>hat apply)</u>	Secondary Indicators (minimum of	<u>two required)</u>
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> <li>Sparsely Vegetated Concave Surface</li> </ul>	Aquation Marl D Hydrog Oxidize Presen Recent Thin M gery (B7) Other (	Stained Leaves (B9) c Fauna (B13) eposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3) ice of Reduced Iron (C4) : Iron Reduction in Tilled Soils (C6) luck Surface (C7) (Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Ima</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>	0,1,1,1
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):	_	
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒
Saturation Present?	Yes No 🟒	Depth (inches):	_	
(includes capillary fringe)				
	auge, monitoring well, a	erial photos, previous inspections), if	available:	
Remarks:				

# VEGETATION -- Use scientific names of plants.

## Sampling Point: W-ABL-02\_UPL-1

r <u>ee Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	n	
. Robinia pseudoacacia	70	Yes	FACU	Are OBL, FACW, or FAC:	2	(A)
. Acer negundo	15	No	FAC	Total Number of Dominant Species	7	(B)
·				Percent of Dominant Species That		
·			-	- Are OBL, FACW, or FAC:	28.6	(A/B)
				Prevalence Index worksheet:		
				- <u>Total % Cover of:</u>	Multiply E	<u>by:</u>
				- OBL species 0	x 1 =	0
	85	= Total Cov	er	FACW species 25	x 2 =	50
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 43	x 3 =	129
Acer negundo	28	Yes	FAC	- FACU species 165	x 4 =	660
Lonicera morrowii	10	Yes	FACU	- UPL species 0	x 5 =	0
. Robinia pseudoacacia	10	Yes	FACU	- Column Totals 233	(A)	839 (B
				Prevalence Index = B/A =		
				Hydrophytic Vegetation Indicators:		
				1- Rapid Test for Hydrophytic		
·				- 2 - Dominance Test is > 50%	regetation.	
	48	= Total Cov	er	$3$ - Prevalence Index is $\leq 3.0^1$		
<u>erb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Adaptation	s <sup>1</sup> (Provide s	upportin
Hesperis matronalis	50	Yes	FACU	- data in Remarks or on a separate s	-	apportai
. Pilea fontana	15	Yes	FACW	Problematic Hydrophytic Veg		olain)
. <u>Rosa multiflora</u>	15	Yes	FACU	- <sup>1</sup> Indicators of hydric soil and wetlan		
. Impatiens capensis	10	No	FACW	present, unless disturbed or proble		,
. Solidago canadensis	10	No	FACU	Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm) o	or more in d	iameter a
				breast height (DBH), regardless of	neight.	
				Sapling/shrub – Woody plants less	than 3 in. D	BH and
				greater than or equal to 3.28 ft (1 r	n) tall.	
0.				Herb – All herbaceous (non-woody		ardless o
1				size, and woody plants less than 3.		
2.				Woody vines – All woody vines grea	ater than 3.2	28 ft in
	100	= Total Cov	er	height.		
<u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Present?	Yes No	>_∕_
·						
				-		
·				-		
·				-		
···	0	= Total Cov	or	-		
	U		CI			

SOIL

nches)         Color (moist)           0 - 4         10YR 3/3           4 - 16         10YR 4/3	%         Color (moist)           100	<u>% Type1</u>	Loc <sup>2</sup> Texture Loam	
4 - 16 10YR 4/3		·		
			Loam	
			·	
	aplation DM = Doducad		Asslved Cand Crains 2	esetion DL - Dero Lining M - Matrix
be: C = Concentration, D = De Iric Soil Indicators:	בטופנוטוו, אוא = אפטעכפט	iviali ix, IVIS = N	naskeu sanu Grains. 4L	ocation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, ML dicators of hydrophytic veget	Thin Dark Sur Loamy Mucky Loamy Gleyed Depleted Mat e (A11) Redox Dark Su Depleted Darl Redox Depres	face (S9) (LRR I Mineral (F1) (L Matrix (F2) rix (F3) urface (F6) < Surface (F7) ssions (F8)	.RR K, L)	<ul> <li>2 cm Muck (A10) (LRR K, L, MLRA 149B)</li> <li>Coast Prairie Redox (A16) (LRR K, L, R)</li> <li>5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</li> <li>Dark Surface (S7) (LRR K, L)</li> <li>Polyvalue Below Surface (S8) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> </ul>
trictive Layer (if observed):		ology must be	present, unless distarbe	
Туре:	None		Hydric Soil Present?	Yes No⁄_
Depth (inches): narks:				

Soil Photos



Photo of Sample Plot North

Photo of Sample Plot East



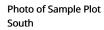


Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k	City/County:	Canajoharie, Mo	ontgomery County	/	Sampling Date:	2022-Aug-16
Applicant/Owner: S	ED			State: NY		Sampling Point: <u>V</u>	/-ABL-03_PEM-1
Investigator(s): Abi l	ight, Ella de B	Iruijn	Sect	ion, Township, Ra	nge:		
Landform (hillslope, te	rrace, etc.):	Channel	Local relief	(concave, convex,	none):	Concave	Slope (%): 1 to 10
Subregion (LRR or MLF	RA): LRR	L	Lat:	42.8992967515	Long:	-74.5518385635	Datum: WGS84
Soil Map Unit Name:	Lansing silt	loam, 3 to 8 percent slopes				NWI classifica	ation:
Are climatic/hydrologic	c conditions o	n the site typical for this time	of year?	Yes No 🔔	🖊 (lf no,	explain in Remark	s.)
Are Vegetation, Are Vegetation,		or Hydrology significan or Hydrology naturally	5			ances" present? y answers in Rema	Yes 🟒 No rks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🧹 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ABL-03
Remarks: (Explain alternative procedures he	re or in a separate report	)	
Covertype is PEM. Area is wetland, all three v	wetland parameters are p	resent.	

## HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of or	<u>ne is required; check all tha</u>	Secondary Indicators (minimum of two required)	
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Im.</li> <li>Sparsely Vegetated Concave Surface</li> </ul>		<ul> <li> Surface Soil Cracks (B6)</li> <li> Drainage Patterns (B10)</li> <li> Moss Trim Lines (B16)</li> <li> Dry-Season Water Table (C2)</li> <li> Crayfish Burrows (C8)</li> <li> Saturation Visible on Aerial Imagery (C9)</li> <li> Stunted or Stressed Plants (D1)</li> <li> Geomorphic Position (D2)</li> <li> Shallow Aquitard (D3)</li> <li> Microtopographic Relief (D4)</li> <li> FAC-Neutral Test (D5)</li> </ul>	
Field Observations:			
Surface Water Present?	Yes No 🟒	Depth (inches):	
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present? Yes _ No
Saturation Present?	Yes 🟒 No	Depth (inches): 0	
(includes capillary fringe)			
Describe Recorded Data (stream g	auge, monitoring well, aer	ial photos, previous inspections),	if available:

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-03\_PEM-1

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	2	
. Acer negundo	10	Yes	FAC	Are OBL, FACW, or FAC:	Z	(A)
				<ul> <li>Total Number of Dominant Species</li> <li>Across All Strata:</li> </ul>	3	(B)
·				Percent of Dominant Species That		
				- Are OBL, FACW, or FAC:	66.7	(A/B)
				Prevalence Index worksheet:		
				- <u>Total % Cover of:</u>	<u>Multiply B</u>	<u>y:</u>
				- OBL species 0	x 1 =	0
	10	= Total Cov	er	FACW species 80	x 2 =	160
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 20	x 3 =	60
Lonicera morrowii	20	Yes	FACU	- FACU species 35	x 4 =	140
				- UPL species 0	x 5 =	0
				- Column Totals 135	(A)	360 (B
·				- Prevalence Index = B/A =		500 (D
		·		Hydrophytic Vegetation Indicators:		
				1- Rapid Test for Hydrophytic	Vegetation	
·		- Total Cov	or	2 - Dominance Test is >50%		
orh Stratum (Diot cize) Eft	20	= Total Cov	er	$_{4}$ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>		
erb Stratum (Plot size: <u>5 ft</u> )	60	Yes	FACW	4 - Morphological Adaptations	<sup>1</sup> (Provide si	upportin
Impatiens capensis	15		-	- data in Remarks or on a separate s		
Solidago canadensis		No	FACU	Problematic Hydrophytic Vege		
Onoclea sensibilis	10	No	FACW	<sup>1</sup> Indicators of hydric soil and wetlar	, 0,	/ must b
Verbena urticifolia	10	No	FAC	_ present, unless disturbed or proble	matic	
. Pilea pumila	10	No	FACW	_ Definitions of Vegetation Strata:		
·				_ Tree – Woody plants 3 in. (7.6 cm) o		ameter
·				breast height (DBH), regardless of h	-	ام مر م ا ا ۲
				Sapling/shrub – Woody plants less t greater than or equal to 3.28 ft (1 m		sh and
				Herb – All herbaceous (non-woody)		ordloss o
0				size, and woody plants less than 3.2		ii uless o
1				Woody vines – All woody vines grea		8 ft in
2				- height.		
	105	= Total Cov	er	Hydrophytic Vegetation Present?	Yes 🖌 No	)
<u>/oody Vine Stratum</u> (Plot size: <u>30 ft</u> )				hydrophytic vegetation resent.	105 <u>v</u> 100	·
·				-		
·				-		
·				-		
		T-+ C		-		
	0	= Total Cov	er			

SOIL

Profile Des	cription: (Describe	to the	depth needed to	docu	ment the	e indicato	r or confirm the a	absence of indicators.)
Depth	Matrix		Redo	x Fea	tures			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e Remarks
0 - 5	10YR 3/2	95	7.5YR 4/6	5	C	M/PL	Clay Loa	am
5 - 18	10YR 4/1	95	7.5YR 4/6	5	С	M/PL	Clay Loa	
			-					
							·	
				· —				
1T		. <u> </u>				Maakaa	Canal Craina 2	Leastien, DL - Deve Lining M - Metrix
		Depiet	lion, kivi = Reduce	u ivia	aufix, MIS	– waskec	i Sanu Grains. 2	Location: PL = Pore Lining, M = Matrix.
Hydric Soil Histosc	Indicators:		Dala sala - D	مامین	Curfees			Indicators for Problematic Hydric Soils <sup>3</sup> :
	. ,		Polyvalue B					2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
	pipedon (A2) listic (A3)		Thin Dark S Loamy Muc					Coast Prairie Redox (A16) <b>(LRR K, L, R)</b>
	gen Sulfide (A4)		Loamy Gley	-			L)	5 cm Mucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
	ed Layers (A5)		Depleted M			)		Dark Surface (S7) <b>(LRR K, L)</b>
	ed Below Dark Surfa	ace (A1	•					Polyvalue Below Surface (S8) (LRR K, L)
	ark Surface (A12)		Depleted Da			7)		Thin Dark Surface (S9) <b>(LRR K, L)</b>
	Mucky Mineral (S1)		Redox Depr			,		Iron-Manganese Masses (F12) (LRR K, L, R)
	Gleyed Matrix (S4)							Piedmont Floodplain Soils (F19) <b>(MLRA 149B)</b>
-	Redox (S5)							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent Material (F21)
	urface (S7) <b>(LRR R, N</b>	/I RA 1	49R)					Very Shallow Dark Surface (TF12)
			,					Other (Explain in Remarks)
	of hydrophytic veg		n and wetland hyd	drolo	gy must	be preser	nt, unless disturbe	ed or problematic.
Restrictive	Layer (if observed):							
	Туре:		None	-		Hydric S	Soil Present?	Yes 🟒 No
	Depth (inches):							
A positive	indication of hydric	soil wa	as observed.					

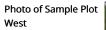
#### Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South





# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek	City/County: Canajoharie, Montgomery County	Sampling Date: 2022-Aug-16							
Applicant/Owner: SED	State: NY	Sampling Point: W-ABL-03_UPL-1							
Investigator(s): Abi Light, Ella de Bruijn	Section, Township, Range:								
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none):	None Slope (%): 0 to 1							
Subregion (LRR or MLRA): LRR L	Lat: 42.8993582186 Long	-74.5517763863 Datum: WGS84							
Soil Map Unit Name: Lansing silt loam, 3 to 8 per	cent slopes	NWI classification:							
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)									
	significantly disturbed? Are "Normal Circums naturally problematic? (If needed, explain an	stances" present? Yes 🟒 No ny answers in Remarks.)							

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedure	s here or in a separate repor	rt)	
Covertype is UPL.			

### HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one	Secondary Indicators (minimum of two required)		
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Image</li> <li>Sparsely Vegetated Concave Surfation</li> </ul>	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>		
Field Observations:			
Surface Water Present?	Yes No 🟒	Depth (inches):	
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?     Yes No
Saturation Present?	Yes No 🟒	Depth (inches):	
(includes capillary fringe)			
Describe Recorded Data (stream gau	ge, monitoring well, ae	rial photos, previous inspections), if	available:
Remarks:			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-03\_UPL-1

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant		Dominance Test worksheet:		
<u> </u>	% Cover	Species?	Status	Number of Dominant Species That	3	(A)
Acer negundo	15	Yes	FAC	Are OBL, FACW, or FAC:		
·				Total Number of Dominant Species	5	(B)
				Across All Strata:		
				Percent of Dominant Species That	60	(A/B)
j				Are OBL, FACW, or FAC:		
				Prevalence Index worksheet:		
				Total % Cover of:	<u>Multiply</u>	•
·		= Total Cov	er	OBL species 0	x 1 =	0
apling/Shrub Stratum (Plot size: <u>15 ft</u> )		-		FACW species 0	x 2 =	0
	10	Voc	FAC	FAC species 45	x 3 =	135
. Cornus racemosa	10	Yes	FAC	FACU species 65	x 4 =	260
				UPL species 20	x 5 =	100
B		<u> </u>		Column Totals 130	(A)	495 (B)
		<u> </u>		Prevalence Index = B/A =	3.8	
				Hydrophytic Vegetation Indicators:	-	
				1- Rapid Test for Hydrophytic	Vogotation	
·				✓ 2 - Dominance Test is >50%	vegetation	
	10	= Total Cov	er	2 - Dominance rest is >50% 3 - Prevalence Index is $\leq 3.0^1$		
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> )					1 (Durau dala	
. Solidago canadensis	50	Yes	FACU	<ul> <li>4 - Morphological Adaptations</li> <li>data in Remarks or on a separate s</li> </ul>		supporting
. Zea mays	20	Yes	UPL	Problematic Hydrophytic Vege		nlain)
. Galium mollugo	15	No	FACU	<sup>1</sup> Indicators of hydric soil and wetlar		
. Setaria pumila	10	No	FAC	present, unless disturbed or proble	<u> </u>	gymustb
. Verbena urticifolia	5	No	FAC	Definitions of Vegetation Strata:	induc	
				Tree – Woody plants 3 in. (7.6 cm) c	r moro in	diamotor
				breast height (DBH), regardless of h		
·				Sapling/shrub – Woody plants less	0	)BH and
·				greater than or equal to 3.28 ft (1 n		Dirana
				Herb – All herbaceous (non-woody)		ardless of
0		<u> </u>		size, and woody plants less than 3.2		Survicession
1				Woody vines – All woody vines grea		28 ft in
2		·		height.		201011
	100	= Total Cov	er		Voc ( N	
<u> Noody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Present?	185 <u>v</u> 1	10
	5	Yes	FAC			
				.		
B						
	5	= Total Cov	er			
		-				

SOIL

Depth	Matrix		Redox	Feat	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e	Remarks
0 - 18	10YR 3/2	100					Clay Loa	am	
				·					
				·					
				·					
<u> </u>				· —					
				· —	. <u> </u>				
				· —					
				· —					-
				-	<u> </u>				
				-	<u> </u>				
	 Concentration, D = I		n RM = Reduced	Mat	riy MC -	Mackod	Sand Grains 21	ocation: DI	– = Pore Lining, M = Matrix.
	Indicators:	Jepieric	n, rivi – reduceu	ivial	- CIVI , AII	wasked 2			for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Be	ow S	urface (S	(I RR R	MI RA 149R)		
	bipedon (A2)		Thin Dark Su						Nuck (A10) (LRR K, L, MLRA 149B)
Black Hi			Loamy Muck						Prairie Redox (A16) <b>(LRR K, L, R)</b> /lucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
	en Sulfide (A4)		Loamy Gleye						urface (S7) <b>(LRR K, L)</b>
	d Layers (A5)		Depleted Ma						lue Below Surface (S8) (LRR K, L)
	d Below Dark Surfa ark Surface (A12)	ice (A11	) Redox Dark S Depleted Dai		• •			Thin D	ark Surface (S9) <b>(LRR K, L)</b>
	lucky Mineral (S1)		Redox Depre			)			langanese Masses (F12) <b>(LRR K, L, R)</b>
	leyed Matrix (S4)			55101	15 (1 0)				ont Floodplain Soils (F19) <b>(MLRA 149B)</b>
-	edox (S5)								Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	d Matrix (S6)								arent Material (F21) hallow Dark Surface (TF12)
_ Dark Su	rface (S7) <b>(LRR R, N</b>	ILRA 14	9B)					-	(Explain in Remarks)
ndicators	of budropbyticy or	ototion			u must b	o procopt	uplace dicturb		
	of hydrophytic veg Layer (if observed):		and wettand flydr	olog	y must b	e present	, unless disturbe		flatic.
estrictive	Type:		None			Hydric	Soil Present?		Yes No 🟒
	Depth (inches):		None	•		i iyunc .	Son resent:		
emarks:	Depth (inches).								
indi KS.									

#### Soil Photos



Photo of Sample Plot North

#### Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k		City/County:	Canajoharie	e, Mon	ntgomery (	County	Sampling Date:	2022-Aug-16
Applicant/Owner: S			State: NY			Sampling Point:	W-ABL-04_PEM-1		
Investigator(s): Abi L	ight, Ella de B	ruijn			Sectio	on, Townsl	nip, Range:		
Landform (hillslope, te	rrace, etc.):	Channel		Local re	elief (d	concave, c	onvex, none):	Concave	Slope (%): 1 to 3
Subregion (LRR or MLF	RA): LRR	_		I	Lat: 4	2.896074	Long:	-74.54981	Datum: WGS84
Soil Map Unit Name:	Churchville s	ilty clay loam, 3	to 8 percent	slopes (ChB)				NWI classifi	cation:
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)									
Are Vegetation, Are Vegetation,		or Hydrology or Hydrology	-	tly disturbed problematic?				tances" present? ly answers in Rem	Yes 🟒 No narks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ABL-04
Remarks: (Explain alternative procedures	here or in a separate repo	ort)	
Covertype is PEM.			

### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	Secondary Indicators (minimum of two required)			
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> <li>Sparsely Vegetated Concave Su</li> </ul>	0 )	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>		
Field Observations:				
Surface Water Present?	Yes	No 🟒	Depth (inches):	
Water Table Present?	Yes	No 🟒	Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present?	Yes	No 🟒	Depth (inches):	
(includes capillary fringe)				
Describe Recorded Data (stream ga	auge, moni	toring well, aeri	al photos, previous inspections), if	available:
Refine KS.				

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-04\_PEM-1

<u>Free Stratum</u> (Plot size: <u>30 ft</u> )		Dominant		Dominance Test worksheet:			
	% Cover	Species?	Status	Number of Dominant Speci Are OBL, FACW, or FAC:	es That	3	(A)
		<u> </u>		Total Number of Dominant	Species -	3	(B)
				Across All Strata:		5	
				<ul> <li>Percent of Dominant Specie</li> <li>Are OBL, FACW, or FAC:</li> </ul>	es That	100	(A/B)
				Prevalence Index workshee			
				- <u>Total % Cover of:</u>		Multiply	Rv.
					65	x 1 =	65
	0	= Total Cov	er	· · ·	35	x 2 =	70
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				· · · · · · · · · · · · · · · · · · ·	0	x 3 =	0
				· · ·	0	x 4 =	0
				· · ·	0	x 5 =	0
				· · · · ·	00	(A) –	135 (B)
				Prevalence Index		1.4	100 (0
				Hydrophytic Vegetation Ind			
		·		1- Rapid Test for Hydro		egetation	
				2 - Dominance Test is		0	
	0	= Total Cov	er	3 - Prevalence Index is	≤ 3.0 <sup>1</sup>		
erb Stratum (Plot size: <u>5 ft</u> )	45	Vee		4 - Morphological Ada	ptations <sup>1</sup>	(Provide	supportin
Lythrum salicaria	45	Yes	OBL	- data in Remarks or on a sep	oarate she	eet)	
Phalaris arundinacea		Yes	FACW	Problematic Hydrophy	tic Veget	ation <sup>1</sup> (Ex	plain)
Typha latifolia	20	Yes	OBL	<sup>1</sup> Indicators of hydric soil and			gy must b
Onoclea sensibilis	5	No	FACW	present, unless disturbed o		natic	
				Definitions of Vegetation St			
				Tree – Woody plants 3 in. (7	-		diameter a
		·		breast height (DBH), regard		-	
		·		Sapling/shrub – Woody plan			BH and
		·		greater than or equal to 3.2 Herb – All herbaceous (non-			ardloss o
0		·		size, and woody plants less	2.1		gal uless o
1		·		Woody vines – All woody vir			28 ft in
2				height.			
	100	= Total Cov	er	Hydrophytic Vegetation Pre	esent? ∨	es 🖌 N	lo
/oody Vine Stratum (Plot size: <u>30 ft</u> )						N	~
·		<u> </u>		-			
		·		-			
·		·		-			
·				-			
	0	= Total Cov	er				

SOIL

Profile Des	cription: (Describe	to the	depth needed to	docu	ment the	e indicato	r or confirm the a	bsence of i	ndicators.)
Depth	Matrix		Redo	k Fea	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 18	10YR 3/1	95	7.5YR 5/6	5	С	M/PL	Clay Loar	n	
				· —			-		
				· —					
				· —					
				· —					
				· —					
<sup>1</sup> Type: $C = 0$	oncentration. D =	 Deplet	tion. RM = Reduce	d Ma	atrix. MS :	= Masked	Sand Grains. 2	ocation: Pl	– Pore Lining, M = Matrix.
Hydric Soil		Depier				mashed			s for Problematic Hydric Soils <sup>3</sup> :
Histoso			Polyvalue B	elow	Surface	(S8) <b>(LRR</b>	R. MLRA 149B)		,
	oipedon (A2)		Thin Dark S						Muck (A10) (LRR K, L, MLRA 149B)
	istic (A3)		Loamy Muc						Prairie Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley	-			_,		Mucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted M						Surface (S7) (LRR K, L)
	d Below Dark Surfa	ace (A1	•						alue Below Surface (S8) (LRR K, L)
Thick D	ark Surface (A12)		Depleted D	ark S	urface (F	7)			Dark Surface (S9) <b>(LRR K, L)</b>
	/lucky Mineral (S1)		Redox Depr	essio	ons (F8)				Manganese Masses (F12) (LRR K, L, R)
Sandy (	Gleyed Matrix (S4)								nont Floodplain Soils (F19) <b>(MLRA 149B)</b>
-	Redox (S5)								Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	d Matrix (S6)								Parent Material (F21)
	irface (S7) <b>(LRR R, N</b>	/I R  1	49B)						Shallow Dark Surface (TF12)
			150)					Other	r (Explain in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	etatio	n and wetland hye	drolo	gy must	be preser	nt, unless disturbe	ed or proble	ematic.
Restrictive	Layer (if observed):	:							
	Туре:		None			Hydric S	Soil Present?		Yes 🟒 No
	Depth (inches):			•		-			
Remarks:									

Soil Photos



Photo of Sample Plot North

#### Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek	City/County: Canajoharie, Montgomery County	Sampling Date: 2022-Aug-16							
Applicant/Owner: SED	State: NY	Sampling Point: W-ABL-04_UPL-1							
Investigator(s): Abi Light, Ella de Bruijn	Section, Township, Range:								
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none):	None Slope (%): 1 to 3							
Subregion (LRR or MLRA): LRR L	Lat: 42.8960740787 Long	-74.549961173 Datum: WGS84							
Soil Map Unit Name: Churchville silty clay loam, 3	3 to 8 percent slopes (ChB)	NWI classification:							
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)									
	significantly disturbed? Are "Normal Circums naturally problematic? (If needed, explain an	tances" present? Yes _✔ No ny answers in Remarks.)							

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedure	es here or in a separate repo	rt)	
Covertype is UPL.			

### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	<u>e is requir</u>	ed; check all the	<u>at apply)</u>	Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> <li>Sparsely Vegetated Concave Surface</li> </ul>		Aquatic I Marl Dep Hydroge Yoxidized Recent In Thin Mu	rained Leaves (B9) Fauna (B13) posits (B15) n Sulfide Odor (C1) I Rhizospheres on Living Roots (C3) e of Reduced Iron (C4) ron Reduction in Tilled Soils (C6) ck Surface (C7) xplain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations:				
Surface Water Present?	Yes	No 🟒	Depth (inches):	
Water Table Present?	Yes	No 🟒	Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present?	Yes	No 🟒	Depth (inches):	_
(includes capillary fringe)				
Describe Recorded Data (stream ga 	luge, mon	itoring well, aer	ial photos, previous inspections), if	available:

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-04\_UPL-1

<u> Free Stratum</u> (Plot size: <u>30 ft</u> )		Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species Th Are OBL, FACW, or FAC:	<sup>at</sup> O	(A)
		·		Total Number of Dominant Speci	es 1	(B)
				Percent of Dominant Species Tha	t o	 (A/B)
				Are OBL, FACW, or FAC:		
				Prevalence Index worksheet:		
·				- <u>Total % Cover of:</u>	Multiply	
	0	= Total Cov	er	- OBL species 0	x 1 =	0
apling/Shrub Stratum (Plot size: <u>15 ft</u> )		-		FACW species 0	x 2 =	0
				FAC species 5	x 3 =	15
				FACU species 100	x 4 =	400
		<u> </u>		- UPL species 0	x 5 =	0
·		<u> </u>		- Column Totals 105	(A)	415 (B)
		<u> </u>		Prevalence Index = B/A	=4	
				Hydrophytic Vegetation Indicator	s:	
		·		1- Rapid Test for Hydrophyt	ic Vegetatior	ı
·	0	= Total Cov	or	2 - Dominance Test is > 50%		
erb Stratum (Plot size: <u>5 ft</u> )	0	- 10tal COV	ei	$\_$ 3 - Prevalence Index is $\le$ 3.0	)1	
. Solidago canadensis	90	Vac	FACU	4 - Morphological Adaptatic	ns¹ (Provide	supportin
×		Yes	FACU	- data in Remarks or on a separate	sheet)	
Cirsium arvense	5	No	FACU	- Problematic Hydrophytic Ve	getation <sup>1</sup> (E	xplain)
Calystegia sepium Ambrosia artemisiifolia	5	No	FAC	Indicators of hydric soil and wet	and hydrolo	gy must b
	5	No	FACU	present, unless disturbed or pro	olematic	
		<u> </u>		Definitions of Vegetation Strata:		
2				Tree – Woody plants 3 in. (7.6 cm	) or more in	diameter a
				breast height (DBH), regardless o	f height.	
				Sapling/shrub – Woody plants les		DBH and
				greater than or equal to 3.28 ft (1	m) tall.	
				Herb – All herbaceous (non-wood		gardless o
				size, and woody plants less than		
				Woody vines – All woody vines gr	eater than 3	.28 ft in
	105	= Total Cov	er	height.		
<u>Voody Vine Stratum (Plot size:30 ft</u> )		_		Hydrophytic Vegetation Present	Yes N	No 🖌
·		· ·		-		
·····		<u> </u>		-		
		<u> </u>		-		
ł		- Total Cau		-		
	0	= Total Cov	er			

SOIL

Depth Mat			x Feat			150	Domonic
inches) Color (me 0 - 16 10YR 3		Color (moist) 5YR 3/4	<u>%</u> 1	Type <sup>1</sup> C	Loc²         Textu           M/PL         Clay L		Remarks
0 - 16 10YR 3	99	51K 5/4		<u> </u>	M/PL Clay L	Udili	
			·			·	
,			· ·				
						·	
		<u> </u>	· ·	·			
	n, D = Deple	tion, RM = Reduce	d Mat	trix, MS =	Masked Sand Grains.		Pore Lining, M = Matrix.
dric Soil Indicators: Histosol (A1)		Polyvaluo P		Surfaco (S			or Problematic Hydric Soils <sup>3</sup> :
_ Histosof (AT) _ Histic Epipedon (A2)		•			8) (LRR R, MLRA 149B) R, MLRA 149B)		uck (A10) (LRR K, L, MLRA 149B)
Black Histic (A3)		Loamy Muc					rairie Redox (A16) <b>(LRR K, L, R)</b> ucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
_ Hydrogen Sulfide (A	4)	Loamy Gley					ucky Pear of Pear (55) (LRR K, L, R) Irface (S7) (LRR K, L)
Stratified Layers (A5	)	Depleted M	atrix (	(F3)			ue Below Surface (S8) (LRR K, L)
Depleted Below Dar						-	irk Surface (S9) <b>(LRR K, L)</b>
Thick Dark Surface (		Depleted D					anganese Masses (F12) (LRR K, L, R)
		Redox Depr	essior	ns (F8)			Int Floodplain Soils (F19) <b>(MLRA 149B)</b>
						i icuitio	
_ Sandy Mucky Minera _ Sandy Gleyed Matri:		neach 2 ch.					-
_ Sandy Gleyed Matri: _ Sandy Redox (S5)	x (S4)	(COUND OF)				Mesic S	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21)
_ Sandy Gleyed Matri: _ Sandy Redox (S5) _ Stripped Matrix (S6)	x (S4)					Mesic S Red Par	podic (TA6) <b>(MLRA 144A, 145, 149B)</b>
_ Sandy Gleyed Matri: _ Sandy Redox (S5)	x (S4)					Mesic S Red Par Very Sh	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21)
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) <b>(L</b>	x (S4) RR R, MLRA 1	49B)	drolog	zy must be	e present, unless distur	Mesic S Red Par Very Sh Other (l	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> ent Material (F21) allow Dark Surface (TF12) Explain in Remarks)
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Ll dicators of hydrophy	x (S4) <b>RR R, MLRA</b> 1 tic vegetatio	49B)	drolog	gy must be	e present, unless distur	Mesic S Red Par Very Sh Other (l	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> ent Material (F21) allow Dark Surface (TF12) Explain in Remarks)
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (L dicators of hydrophy strictive Layer (if obse	x (S4) <b>RR R, MLRA</b> 1 tic vegetatio	1 <b>49B)</b> n and wetland hyd	drolog			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Ll dicators of hydrophy strictive Layer (if obse Type:	× (S4) RR R, MLRA 1 tic vegetatio erved):	49B)	drolog		e present, unless distur Hydric Soil Present?	Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> ent Material (F21) allow Dark Surface (TF12) Explain in Remarks)
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li dicators of hydrophy strictive Layer (if obso Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	drolog			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li dicators of hydrophy strictive Layer (if obso Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	drolog -			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI dicators of hydrophy trictive Layer (if obso Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	drolog -			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li dicators of hydrophy strictive Layer (if obse Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	drolog -			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) <b>(Li</b> dicators of hydrophy <b>trictive Layer (if obs</b> Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	drolog -			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
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Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li dicators of hydrophy strictive Layer (if obse Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	drolog -			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li dicators of hydrophy strictive Layer (if obse Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	drolog -			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li dicators of hydrophy strictive Layer (if obse Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	drolog -			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) <b>(Li</b> dicators of hydrophy <b>trictive Layer (if obs</b> Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	drolog -			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) <b>(Li</b> licators of hydrophy <b>trictive Layer (if obs</b> Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	drolog			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) <b>(Li</b> dicators of hydrophy <b>trictive Layer (if obs</b> Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	drolog			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li dicators of hydrophy strictive Layer (if obse Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	drolog			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li dicators of hydrophy strictive Layer (if obse Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	- -			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li dicators of hydrophy strictive Layer (if obse Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	drolog -			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (L1 dicators of hydrophy strictive Layer (if obse Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	-			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (L1 dicators of hydrophy strictive Layer (if obse Type:	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	drolog -			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.
Sandy Gleyed Matri: Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li dicators of hydrophy strictive Layer (if obso Type: Depth (inch	× (S4) RR R, MLRA 1 tic vegetatio erved):	1 <b>49B)</b> n and wetland hyd	drolog			Mesic S Red Par Very Sh Other (I bed or problem	podic (TA6) <b>(MLRA 144A, 145, 149B)</b> rent Material (F21) allow Dark Surface (TF12) Explain in Remarks) natic.

Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k		City/County:	Canajoharie,	Montgomer	y County	/	Sampling Date:	2022-Aug-16
Applicant/Owner: S	ED				State	NY		Sampling Point: V	V-ABL-05_PEM-1
Investigator(s): Abi L	ight, Ella de B	ruijn		S	ection, Towr	iship, Ra	inge:		
Landform (hillslope, te	rrace, etc.):	Depression		Local rel	ief (concave,	, convex,	, none):	Concave	Slope (%): 0 to 1
Subregion (LRR or MLF	RA): LRR	L		Lá	at: 42.89786	509217	Long:	-74.5524642642	Datum: WGS84
Soil Map Unit Name:	Churchville s	silty clay loam, 3	to 8 percent	slopes				NWI classific	ation:
Are climatic/hydrologic	conditions or	n the site typical	for this time	of year?	Yes	No	∠ (If no,	explain in Remark	<s.)< td=""></s.)<>
Are Vegetation, Are Vegetation,		or Hydrology or Hydrology	0					tances" present? y answers in Rema	Yes No _ <b>_</b> arks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-ABL-05
Remarks: (Explain alternative procedures he	ere or in a separate report	)	
Covertype is PEM. Area is wetland, all three	wetland parameters are p	resent. Circumstances are not normal due to a	agricultural activities.

### HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of on	<u>e is required; check all t</u>	hat apply)	Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> <li>Sparsely Vegetated Concave Surface</li> </ul>	Aquati Marl D Hydrog Oxidize Presen Recent Thin M gery (B7) Other (	Stained Leaves (B9) c Fauna (B13) eposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3) ice of Reduced Iron (C4) : Iron Reduction in Tilled Soils (C6) uck Surface (C7) (Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations:			
Surface Water Present?	Yes No 🟒	Depth (inches):	
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present? Yes No
Saturation Present?	Yes No 🟒	Depth (inches):	_
(includes capillary fringe)			
Describe Recorded Data (stream ga Remarks:	uge, monitoring well, a	erial photos, previous inspections), if	available:

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-05\_PEM-1

<u>Free Stratum (Plot size:30 ft)</u>		Dominant		Dominance Test worksheet:			
	% Cover	Species?	Status	Are OBL, FACW, or FAC:	es That	2	(A)
				Total Number of Dominant	Species	2	(B)
·		·		<ul> <li>Percent of Dominant Specie</li> </ul>	s That		
		·		- Are OBL, FACW, or FAC:	5 mat	100	(A/B)
·				- Prevalence Index worksheet	t:		
		<u> </u>		Total % Cover of:	ļ	Multiply E	<u>By:</u>
				- OBL species	35	x 1 =	35
	0	= Total Cov	er	FACW species	50	x 2 =	120
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	0	x 3 =	0
				- FACU species	0	x 4 =	0
				UPL species	0	x 5 =	0
				- Column Totals	95	(A)	155 (B
		·		Prevalence Index	= B/A =	1.6	
				Hydrophytic Vegetation Indi	cators:		
		·		1- Rapid Test for Hydro		getation	
·		- Total Cov	or	2 - Dominance Test is >	>50%		
and Church und (Dist sizes . E.ft )	0	= Total Cov	er	3 - Prevalence Index is	≤ 3.0 <sup>1</sup>		
<u>erb Stratum</u> (Plot size: <u>5 ft</u> ) . <i>Phalaris arundinacea</i>	60	Vee		4 - Morphological Ada	otations <sup>1</sup> (	Provide s	supportin
	60	Yes	FACW	- data in Remarks or on a sep	arate she	et)	
. <u>Typha latifolia</u>	20	Yes	OBL	Problematic Hydrophy	rtic Vegeta	ition <sup>1</sup> (Exp	plain)
. Eutrochium maculatum	15	No	OBL	<ul> <li>Indicators of hydric soil and</li> </ul>			gy must b
				present, unless disturbed or	r problem	atic	
				_ Definitions of Vegetation Sti			
				Tree – Woody plants 3 in. (7.	-		liameter a
				breast height (DBH), regard		-	
				Sapling/shrub - Woody plan			BH and
				greater than or equal to 3.2			
0 1 2				Herb – All herbaceous (non-			ardless o
				size, and woody plants less			20 ft in
				<ul> <li>Woody vines – All woody vir</li> <li>height.</li> </ul>	ies greate	r than 3.2	28 11 10
	95	= Total Cov	er			- ( N	
<u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Pre	esent? Ye	s _ <b>/</b> _ No	0
				_			
				_			
				_			
				_			
	0	= Total Cov	er				

SOIL

0.4       10YR 3/2       95       7.5YR 4/6       5       C       PL       Clay Loam         1.18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       10B 4/1       10B       10	0-4       10YR 3/2       95       7.5YR 4/6       5       C       PL       Clay Loam         1-18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1-18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1-18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1-18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1-18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1-18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1-18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1-10 <td< th=""><th>0.4       10YR 3/2       95       7.5YR 4/6       5       C       PL       Clay Loam         1.18       108 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       108 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       108 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       108 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       108 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       108 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       108 4/1       1.18       1.11</th><th>inches)</th><th>Matrix</th><th></th><th>Redo</th><th>k Fea</th><th>tures</th><th></th><th></th><th></th></td<>	0.4       10YR 3/2       95       7.5YR 4/6       5       C       PL       Clay Loam         1.18       108 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       108 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       108 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       108 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       108 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       108 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         1.18       108 4/1       1.18       1.11	inches)	Matrix		Redo	k Fea	tures			
1-18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         Image: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       PLocation: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?:         Histosol (A1)	I 0B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         I 0B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         I 0B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         I 0B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         I 0B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         I 0B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         I 0B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         I 0B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         I 0B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         I 0B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         I 1 0F       File       Mission       Indicators:       Indicators:       Indicators:       Indicators:       2 m Muck (A10 (URR K, L, MLRA 149B)       2 cm Muck (A10) (URR K, L, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         I Stratified Layers (A2)	1-18       10B 4/1       95       7.5YR 4/6       5       C       M/PL       Clay         Image: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       2Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?         Histos (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, R)         Black Histic (A3)       Loamy Mucky Mineral (F1)       Straffed Layers (A5)       2 cm Muck (A10) (LRR K, L, R)         Straffed Layers (A5)       Z Depleted Matrix (F2)       Depleted Matrix (F3)       Depleted Matrix (F3)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Straffed Agers (A5)       Depleted Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Sandy Gleyed Matrix (S4)       Bedox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 144B)       Piedmont Floodplain Soils (F19) (MLRA 144B)         Straffed Matrix (S6)       Red Parent Material (F21)       Very Shallow Dark Surface (S7) (LRR K, L, R)         Stripped Matrix (S6)       Red Parent Material (F21)       Very Shallow Dark Surface (S7) (LRR K, L, R)         Stripped Matrix (S6)       Hydric Soil Present?       Yes _ No		Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?         Histosol (A1)	pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       ²Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils?         Histo Soil Indicators:       Indicators for Problematic Hydric Soils?         Histo Soil Indicators:       Indicators for Problematic Hydric Soils?         Histo Soil (A1)	pe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Indicators:       Indicators for Problematic Hydric Soils*:         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histosol (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Depleted Matrix (F2)         Depleted Below Dark Surface (A11)      Redox Dark Surface (F6)         Thin Dark Surface (F7)	0 - 4	10YR 3/2	95	7.5YR 4/6	5	С	PL	Clay Loar	n
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Standy Gleyed Matrix (S4)      Redox Depressions (F8)         Sandy Redox (S5)	tric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	4 - 18	10B 4/1	95	7.5YR 4/6	5	C	M/PL	Clay	
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	tric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)									
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Standy Gleyed Matrix (S4)      Redox Depressions (F8)         Sandy Redox (S5)	tric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	·		· —		· —		<u> </u>		
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	tric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	·		·		·				
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	tric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)									
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	tric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	·		· —		· —		<u> </u>		
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	tric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)			·						
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Standy Gleyed Matrix (S4)      Redox Depressions (F8)         Sandy Redox (S5)      Redox Depressions (F8)         Stripped Matrix (S6)	tric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)					·				
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Standy Gleyed Matrix (S4)      Redox Depressions (F8)         Sandy Redox (S5)      Redox Depressions (F8)         Stripped Matrix (S6)	tric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)	pe: C = C	oncentration. D =	Deplet	ion. RM = Reduce	d Ma	atrix. MS =	= Masked Sar	d Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix.
Histic Epipedon (A2)	Histic Epipedon (A2)	Histic Epipedon (A2)			o oproc		u 1110				· ·
Histic Epipedon (A2)	Histic Epipedon (A2)	Histic Epipedon (A2)	Histosol	(A1)		Polyvalue B	elow	Surface (	58) <b>(LRR R, M</b>	LRA 149B)	2 cm Muck (A10) <b>(LRR K. L. MLRA 149B)</b>
Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)      5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)      Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)      Depleted Matrix (F3)      Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)      Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)      Thin Dark Surface (S9) (LRR K, L, R)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)      Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Gleyed Matrix (S4)      Red Parent Material (F21)      Nere Material (F21)         Sandy Redox (S5)      Red Parent Material (F21)      Nother (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)      5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)      5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Stratified Layers (A5)       Depleted Matrix (F3)       Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)      Inon-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)      Inon-Manganese Masses (F12) (LRR K, L, P)         Sandy Redox (S5)	Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)      5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)      Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)      Depleted Matrix (F3)      Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)      Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)      Inon-Manganese Masses (F12) (LRR K, L, R)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)      Inon-Manganese Masses (F12) (LRR K, L, P)         Sandy Gleyed Matrix (S4)      Needox (S5)      Needox (S5)      Needox (S6)        Dark Surface (S7) (LRR R, MLRA 149B)      Needox Surface (TF12)	_ Histic Ep	oipedon (A2)						9B)	
Stratified Layers (A5) <ul> <li>Depleted Matrix (F3)</li> <li>Depleted Matrix (F3)</li> <li>Polyvalue Below Surface (S7) (LRR K, L)</li> <li>Polyvalue Below Surface (S8) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> <li>Dark Surface (S7) (LRR R, MLRA 149B)</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> </ul> dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   strictive Layer (if observed):   Type:   None   Depth (inches):	Stratified Layers (A5) <ul> <li>Depleted Matrix (F3)</li> <li>Depleted Matrix (F3)</li> <li>Polyvalue Below Surface (S7) (LRR K, L)</li> <li>Polyvalue Below Surface (S8) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> <li>Dark Surface (S7) (LRR R, MLRA 149B)</li> <li>Redox Depressions (F8)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> </ul> dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   trictive Layer (if observed):   Type:   None   Depth (inches):   Hydric Soil Present? Yes No	Stratified Layers (A5) <ul> <li>Depleted Matrix (F3)</li> <li>Depleted Matrix (F3)</li> <li>Polyvalue Below Surface (S8) (LRR K, L)</li> <li>Polyvalue Below Surface (S9) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> <li>Dark Surface (S7) (LRR R, MLRA 149B)</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> </ul> dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   strictive Layer (if observed):   Type:   None   Depth (inches):	-				-				
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	Depleted Below Dark Surface (A11) Redox Dark Surface (F6)									-
Depleted Below Dark Surface (AT1) Redox Dark Surface (F6)	Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L)   Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR K, L, R)   Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B)   Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)   Sandy Redox (S5) Red Parent Material (F21)   Stripped Matrix (S6) Very Shallow Dark Surface (TF12)   Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)   dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   trictive Layer (if observed):   Type:   None   Depth (inches):   Hydric Soil Present? Yes No	Depleted Below Dark Surface (A11) Redox Dark Surface (F6)	-	<b>,</b>							Polyvalue Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)	Inick Dark Surface (A12)	Thick Dark Surface (A12)			ace (A1						
Sandy Mucky Mineral (S1)	Sandy Mucky Mineral (S1)	Sandy Mucky Mineral (S1)      Redox Depressions (F8)      Piedmont Floodplain Soils (F19) (MLRA 149B, 14							7)		
Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)   Sandy Redox (S5) Red Parent Material (F21)   Stripped Matrix (S6) Very Shallow Dark Surface (TF12)   Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)   dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   strictive Layer (if observed):   Type:   None   Depth (inches):   Hydric Soil Present? Yes No Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Hydric Soil Present? No No	Sandy Gleyed Matrix (S4)Mesic Spodic (TA6) (MLRA 144A, 145, 149B)   Sandy Redox (S5)Red Parent Material (F21)   Stripped Matrix (S6)Very Shallow Dark Surface (TF12)   Dark Surface (S7) (LRR R, MLRA 149B)Other (Explain in Remarks)   dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   strictive Layer (if observed):   Type:   Depth (inches):   Hydric Soil Present? Yes No	Sandy Gleyed Matrix (S4)Mesic Spodic (TA6) (MLRA 144A, 145, 149B)   Sandy Redox (S5)Red Parent Material (F21)   Stripped Matrix (S6)Very Shallow Dark Surface (TF12)   Dark Surface (S7) (LRR R, MLRA 149B)Other (Explain in Remarks)   dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   strictive Layer (if observed):   Type:   None   Depth (inches):   Marks:				Redox Depr	essic	ons (F8)			-
Sandy Redox (S5)	Sandy Redox (S5)	Sandy Redox (S5)	-	-							•
Stripped Matrix (S6)	Stripped Matrix (S6)	Stripped Matrix (S6)	_ Sandy R	edox (S5)							
Dark Surface (S7) (LRR R, MLRA 149B)      Other (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         strictive Layer (if observed):	Dark Surface (S7) (LRR R, MLRA 149B)   dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.   strictive Layer (if observed):   Type:   None   Depth (inches):   Hydric Soil Present? Yes No No	Dark Surface (S7) (LRR R, MLRA 149B)      Other (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         strictive Layer (if observed):	_ Stripped	l Matrix (S6)							
Strictive Layer (if observed):     Type:     None     Hydric Soil Present?     Yes _ ✓ No       Depth (inches):     marks:     Mark State     Mark State     Mark State     Mark State	trictive Layer (if observed): Type: None Hydric Soil Present? Yes Ves No  Depth (inches): narks:	Strictive Layer (if observed):     Type:     None       Type:     None     Hydric Soil Present?     Yes _✓_ No       Depth (inches):     marks:     Hydric Soil Present?     Yes _✓_ No	_ Dark Su	rface (S7) <b>(LRR R, M</b>	ILRA 1	49B)					
Type:     None       Depth (inches):     Hydric Soil Present?   Yes _   marks:	Type:     None     Hydric Soil Present?     Yes _      No       Depth (inches):	Type:     None       Depth (inches):     Hydric Soil Present?   Yes No marks:	dicators o	of hydrophytic veg	etatior	n and wetland hyd	drolo	gy must l	pe present, u	nless disturbe	d or problematic.
Depth (inches):	Depth (inches):	Depth (inches):	strictive L	ayer (if observed):							
marks:	narks:	marks:		Туре:		None			Hydric Soil	Present?	Yes 🟒 No
				Depth (inches):							
positive indication of hydric soil was observed.	ositive indication of hydric soil was observed.	ositive indication of hydric soil was observed.									
			marks:		soil wa	as observed.					
			marks:	ndication of hydric	3011 000						
			marks:	ndication of hydric	5011 WC						
			marks:	ndication of hydric	5011 110						
			marks:	ndication of hydric	3011 111						
			marks:	idication of hydric	5011 110						
			marks:	idication of hydric	5011 110						
			marks:	idication of hydric							
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Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek	City/County: Canajoharie, Montgomery County	Sampling Date: 2022-Aug-16
Applicant/Owner: SED	State: NY	Sampling Point: W-ABL-05_UPL-1
Investigator(s): Abi Light, Ella de Bruijn	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none)	None Slope (%): 0 to 1
Subregion (LRR or MLRA): LRR L	Lat: 42.8977407501 Long	-74.552295459 Datum: WGS84
Soil Map Unit Name: Churchville silty clay loam, 3	to 8 percent slopes (ChB)	NWI classification:
Are climatic/hydrologic conditions on the site typica	l for this time of year? Yes No _∠ (If no	, explain in Remarks.)
	significantly disturbed? Are "Normal Circum: naturally problematic? (If needed, explain a	tances" present? Yes No ny answers in Remarks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report	)	
Covertype is UPL. Circumstances are not norr	nal due to agricultural ac	tivities.	

### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on 	Water-S Aquatic Marl De Hydrog Oxidize Presend Recent Thin Mu agery (B7) Other (	h <b>at apply)</b> Stained Leaves (B9) Fauna (B13) eposits (B15) en Sulfide Odor (C1) d Rhizospheres on Living Roots (C3) ce of Reduced Iron (C4) Iron Reduction in Tilled Soils (C6) uck Surface (C7) Explain in Remarks)	Secondary Indicators (minimum of Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Stunted or Stressed Plants (D' Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)	hagery (C9)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream ga	Yes No Yes No Yes No auge, monitoring well, ae	Depth (inches): Depth (inches): Depth (inches): erial photos, previous inspections), if	- Wetland Hydrology Present? - available:	Yes No <b>/</b>
Remarks:				

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-05\_UPL-1

<u>Tree Stratum (Plot size: <u>30 ft</u>)</u>		Dominant		Dominance Test worksheet:		
		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
·				Total Number of Dominant Species	5 1	(B)
l				<ul> <li>Across All Strata:</li> <li>Percent of Dominant Species That</li> </ul>		
l				- Are OBL, FACW, or FAC:	0	(A/B)
				Prevalence Index worksheet:		
				- <u>Total % Cover of:</u>	<u>Multiply</u>	By:
7				- OBL species 0	x 1 =	0
	0	= Total Cov	er	FACW species 0	x 2 =	0
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 15	x 3 =	45
				- FACU species 0	x 4 =	0
) 				- UPL species 70	x 5 =	350
B				- Column Totals 85	(A)	395 (B)
				Prevalence Index = B/A =	4.6	
				<ul> <li>Hydrophytic Vegetation Indicators:</li> </ul>	:	
				1- Rapid Test for Hydrophytic	Vegetatior	ı
·	0	= Total Cov	or	2 - Dominance Test is > 50%		
lash Stratum (Diat cize) E ft	0		ei	3 - Prevalence Index is $\leq 3.0^{1}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )	55	Yes	UPL	4 - Morphological Adaptation	s¹ (Provide	supporting
. Asclepias syriaca			FAC	- data in Remarks or on a separate s	sheet)	
2. Setaria pumila	15	No		- Problematic Hydrophytic Veg		•
Zea mays	15	No	UPL	<sup>1</sup> Indicators of hydric soil and wetla	2	gy must b
				_ present, unless disturbed or probl	ematic	
				Definitions of Vegetation Strata:		
5				Tree – Woody plants 3 in. (7.6 cm)		diameter a
7				breast height (DBH), regardless of	-	
3				Sapling/shrub – Woody plants less		JBH and
)				greater than or equal to 3.28 ft (1 r		
0				Herb – All herbaceous (non-woody size, and woody plants less than 3.		gardiess o
11				- Woody vines – All woody vines gre		28 ft in
2				height.		.2011111
	85	= Total Cov	er			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Present?	res r	NO _ <b>/</b> _
1				-		
2				_		
3				_		
4						
	0	= Total Cov	er			

SOIL

Inches)         Color (moist)         %         Type'         Loc'         Texture         Remarks           0.14         10YR 3/2         100	Color (moist)         %         Color (moist)         %         Type1         Loc2         Texture         Remarks           0-14         10/R 3/2         100	Color (moist)         %         Color (moist)         %         Type1         Loc2         Texture         Remain           0 - 14         10YR 3/2         100	
0.14       10YR 3/2       100	0-14         10YR 3/2         100	0 - 14       10YR 3/2       100	narks
14-18       10YR 3/2       60       SYR 4/6       40       C       M       Clay         14-18       10YR 3/2       60       SYR 4/6       40       C       M       Clay         14-18       10YR 3/2       60       SYR 4/6       40       C       M       Clay         14-18       10YR 3/2       60       SYR 4/6       40       C       M       Clay         14       14       14       14       14       14       14       14       14         14	14 - 18       10YR 3/2       60       SYR 4/6       40       C       M       Clay         14 - 18       10YR 3/2       60       SYR 4/6       40       C       M       Clay         14 - 18       10YR 3/2       60       SYR 4/6       40       C       M       Clay         14 - 18       10YR 3/2       60       SYR 4/6       40       C       M       Clay         14 - 18       10Yex       10	14 - 18       10YR 3/2       60       5YR 4/6       40       C       M       Clay         14 - 18       10YR 3/2       60       5YR 4/6       40       C       M       Clay         14 - 18       10YR 3/2       60       5YR 4/6       40       C       M       Clay         14 - 18       10YR 3/2       60       5YR 4/6       40       C       M       Clay         14 - 18       10YR 3/2       60       5YR 4/6       40       C       M       Clay         14 - 18       10YR 3/2       60       5YR 4/6       40       C       M       Clay         14 - 18       10YPe: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matri         Hydric Soil Indicators:       Indicators for Problematic Hydric       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L ML         Histosol (A1)       Loamy Mucky Mineral (F1)       Coast Prairie Redox A(16) (LRR K, L)         Striftied Layers (A5)       Depleted Matrix (F2)       Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Depressions (F8)       Thin Dark Surface (S1)       Thon Dark Surface (S2) (LRR K,	
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)      Depleted Matrix (F2)         Depleted Below Surface (A11)       Redox Dark Surface (F7)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)        Srandy Mucky Matrix (S6)      Need Parent Material (F21)	Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils?:         Histoc Epipedon (A2)       Thin Dark Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S8) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S4)         Sandy Redox (S5)       Metand Hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       None         Type:       None	Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matri         Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR K, L)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F0)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Piedmont Floodplain Soils (F1)         Stripped Matrix (S4)       Red Parent Material (F21)         Stripped Matrix (S6)       Piedmont Floodplain Soils (F1)         Dark Surface (S7) (LRR R, MLRA 149B)       Wery Shallow Dark Surface (T7)         Stripped Matrix (S6)       Piedmont Floodplain Soils (F1)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (T21)         Stripped Matrix (S6)       Other (Explain in Remarks)         "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       None         Type:       None         Depth (inches):       Yes	
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (F7)       Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S4)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Coast Prairie Redox CrF12)         Delpleted Dark Surface (S7)       None         Sandy Redox (S5)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :	Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, ML         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LR         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Depleted Matrix (F3)       Deoleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Iron-Manganese Masses (F12)       Piedmont Floodplain Soils (F1         Sandy Redox (S5)       Stripped Matrix (S6)       Very Shallow Dark Surface (TF       Mesic Spodic (TA6) (MLRA 149B)         Plindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         Plindicators of hydrophytic regetation and wetland hydrology must be present?       Yes No/         Type:       None       Yes No/	
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (F7)       Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S4)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Coast Prairie Redox CrF12)         Delpleted Dark Surface (S7)       None         Sandy Redox (S5)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :	Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, ML         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LR         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Depleted Matrix (F3)       Deoleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Iron-Manganese Masses (F12)       Piedmont Floodplain Soils (F1         Sandy Redox (S5)       Stripped Matrix (S6)       Very Shallow Dark Surface (TF       Mesic Spodic (TA6) (MLRA 149B)         Plindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         Plindicators of hydrophytic regetation and wetland hydrology must be present?       Yes No/         Type:       None       Yes No/	
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (F7)       Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S4)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Coast Prairie Redox CrF12)         Delpleted Dark Surface (S7)       None         Sandy Redox (S5)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F7)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Mesic Spodic (TA6) (MLRA 1449B)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Piedmont Floodplain Noils (F12)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Hydric Soil Present?       Yes No	Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, ML         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LR         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Iron-Manganese Masses (F12)         Stripped Matrix (S6)       Piedmont Floodplain Soils (F1         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         Hindicators of hydrophytic vegetation and wetland hydrology must be present?       Yes	
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (F7)       Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S4)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Coast Prairie Redox CrF12)         Delpleted Dark Surface (S7)       None         Sandy Redox (S5)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F7)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Mesic Spodic (TA6) (MLRA 1449B)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Piedmont Floodplain Noils (F12)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Hydric Soil Present?       Yes No	Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, ML         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LR         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Iron-Manganese Masses (F12)         Stripped Matrix (S6)       Piedmont Floodplain Soils (F1         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         Hindicators of hydrophytic vegetation and wetland hydrology must be present?       Yes	
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (F7)       Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S4)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Coast Prairie Redox CrF12)         Delpleted Dark Surface (S7)       None         Sandy Redox (S5)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F7)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S6)       Mesic Spodic (TA6) (MLRA 1449B)         Stripped Matrix (S6)       Mesic Spodic (TA6) (MLRA 1444, 145, 149B)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Red Parent Material (F21)         Stripped Matrix (S6)       Piedmont Floodplain n Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:         Depth (inches):       None	Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, ML         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LR         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Iron-Manganese Masses (F12)         Stripped Matrix (S6)       Piedmont Floodplain Soils (F1         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present?       Yes	
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (F7)       Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S4)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Coast Prairie Redox CrF12)         Delpleted Dark Surface (S7)       None         Sandy Redox (S5)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S6)       Depleted Matrix (S6)         Dark Surface (S7) (LRR R, MLRA 149B)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Hydric Soil Present?         Yery Shallow Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Depth (inches):       None       Hydric Soil Present?       Yes No	Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, ML         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LR         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (S6)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Iron-Manganese Masses (F12)         Sandy Redox (S5)       Stripped Matrix (S6)       Piedmont Floodplain Soils (F1         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present?       Yes No/         Depth (inches):       None       Yes	
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (F7)       Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S4)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Coast Prairie Redox CrF12)         Delpleted Dark Surface (S7)       None         Sandy Redox (S5)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F7)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Mesic Spodic (TA6) (MLRA 1449B)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Sandy Redox (S5)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Piedmont Floodplain Noils (F12)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Hydric Soil Present?       Yes No	Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, ML         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LR         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Iron-Manganese Masses (F12)         Stripped Matrix (S6)       Piedmont Floodplain Soils (F1         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         Hindicators of hydrophytic vegetation and wetland hydrology must be present?       Yes	
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (F7)       Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S4)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Coast Prairie Redox CrF12)         Delpleted Dark Surface (S7)       None         Sandy Redox (S5)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F7)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S6)       Mesic Spodic (TA6) (MLRA 1449B)         Stripped Matrix (S6)       Mesic Spodic (TA6) (MLRA 1444, 145, 149B)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Red Parent Material (F21)         Stripped Matrix (S6)       Piedmont Floodplain n Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:         Depth (inches):       None	Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, ML         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LR         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Iron-Manganese Masses (F12)         Stripped Matrix (S6)       Piedmont Floodplain Soils (F1         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present?       Yes	
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (F7)       Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S4)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Coast Prairie Redox CrF12)         Delpleted Dark Surface (S7)       None         Sandy Redox (S5)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F7)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S6)       Piedmont Floodplain Soils (F12) (LRR K, L, R)         Stripped Matrix (S6)       Mesic Spodic (TA6) (MLRA 1449B)         Stripped Matrix (S6)       Red Parent Material (F21)         Other (Explain in Remarks)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Hydric Soil Present?         Yery Shallow Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Depth (inches):       None	Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, ML         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LR         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (S6)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Iron-Manganese Masses (F12)         Sandy Redox (S5)       Stripped Matrix (S6)       Piedmont Floodplain Soils (F1         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present?       Yes No/         Depth (inches):       None       Yes	
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (F7)       Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S4)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Coast Prairie Redox CrF12)         Delpleted Dark Surface (S7)       None         Sandy Redox (S5)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S6)       Depleted Matrix (S6)         Dark Surface (S7) (LRR R, MLRA 149B)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Other (Explain in Remarks)       Hydric Soil Present?         Yery Shallow Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Depth (inches):       None       Hydric Soil Present?       Yes No	Hydric Soil Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, ML         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LR         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (S6)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Iron-Manganese Masses (F12)         Sandy Redox (S5)       Stripped Matrix (S6)       Piedmont Floodplain Soils (F1         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present?       Yes No/         Depth (inches):       None       Yes	
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thin Dark Surface (F7)       Thin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Depleted Matrix (S4)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Coast Prairie Redox CrF12)         Delpleted Dark Surface (S7)       None         Sandy Redox (S5)       Depleted Dark Surface (F7)         Stripped Matrix (S6)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Other (Explain in Remarks)	Jydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :	Indicators:       Indicators for Problematic Hydric         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thic Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Stripped Matrix (S4)       Mesic Spodic (TA6) (MLRA 149B)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF         Dark Surface (S7) (LRR R, MLRA 149B)       Mesic Spodic (TA6) (MLRA 1449B)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         testrictive Layer (if observed):       None         Depth (inches):       None         Depth (inches):       None	
	Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)      2 cm Muck (A10) (LRR K, L, MLRA 149B)	Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Muck (A10) (LRR K, L, ML         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, ML         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Thin Dark Surface (S9) (LRR K,         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F1         Stripped Matrix (S6)       Mesic Spodic (TA6) (MLRA 149B)       Red Parent Material (F21)         Stripped Matrix (S6)       Other (Explain in Remarks)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes No         Exercisive Layer (if observed):       None       Yes No         Type:       None       Hydric Soil Present?       Yes No	
	Histic Epipedon (A2)	Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucky Peat or Peat (S3)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         Stratified Layers (A5)       Depleted Matrix (F3)       Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A12)       Depleted Dark Surface (F7)       Thin Dark Surface (S9) (LRR K,         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Iron-Manganese Masses (F12)         Sandy Redox (S5)       Piedmont Floodplain Soils (F1         Stripped Matrix (S6)       Piedmont Floodplain Soils (F1         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         testrictive Layer (if observed):       None         Type:       None         Depth (inches):       Hydric Soil Present?       Yes No	
	Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)	Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)	
			) (ERR R, E, R)
			) (LRR K. L)
Sandy Redox (S5)      Mesic Spodic (1A6) (MLRA 144A, 145, 149B)        Stripped Matrix (S6)      Red Parent Material (F21)        Dark Surface (S7) (LRR R, MLRA 149B)      Other (Explain in Remarks)        Other (Explain in Remarks)      Other (Explain in Remarks)        ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Other (Explain in Remarks)  	Sandy Redox (S5)Mesic Spotic (1A6) (MLRA 144Red Parent Material (F21)Very Shallow Dark Surface (TFOther (Explain in Remarks) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed):Type:NoneHydric Soil Present? YesNo	19) <b>(MLRA 149B)</b>
			4A, 145, 149B)
	Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Contracted or problematic Type: None Hydric Soil Present? Yes No	Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. testrictive Layer (if observed): Type: None Hydric Soil Present? Yes No	
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type:NoneNOneNOneNOneNOneNOneNOneNOneNOneNOneNOneNOneNOneNOneNOneNOneNOneNOneNOneNONE	Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:       None         Depth (inches):	Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:       None         Depth (inches):	F12)
estrictive Layer (if observed): Type: None Hydric Soil Present? Yes No 🖌	Restrictive Layer (if observed):     Type:     None       Type:     None     Hydric Soil Present?     Yes No _✓       Depth (inches):	Type:     None       Depth (inches):     Hydric Soil Present?	
Type: None Hydric Soil Present? Yes No 🖌	Type:     None     Hydric Soil Present?     YesNo _       Depth (inches):	Type:     None       Depth (inches):     Hydric Soil Present?	
	Depth (inches):	Depth (inches):	
Depth (inches):			
	emarks:	emarks:	

#### Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k		City/County:	Canajoharie,	, Montgo	mery Cour	ity	Sampling Date:	2022-Aug-18
Applicant/Owner: S	ED					State: NY		Sampling Point:	W-ABL-06_PEM-1
Investigator(s): Abi L	ight, Ella de B	ruijn			Section,	Township, F	Range:		
Landform (hillslope, te	rrace, etc.):	Channel		Local re	lief (con	cave, conve	x, none):	Concave	Slope (%): 1 to 3
Subregion (LRR or MLF	RA): LRR I	-		L	at: 42.8	941317359	Long:	-74.5542082971	Datum: WGS84
Soil Map Unit Name:	Churchville s	ilty clay loam, 3	to 8 percent	slopes				NWI classifi	cation: R2UBH
Are climatic/hydrologic	c conditions or	the site typical	for this time	of year?	Ye	s 🟒 No	(lf n	o, explain in Rema	ırks.)
Are Vegetation, Are Vegetation,		or Hydrology or Hydrology	0	5				tances" present? ny answers in Rem	

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ABL-06
Remarks: (Explain alternative procedure	es here or in a separate rep	port)	
Covertype is PEM.			

### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	e is required; check	<u>all that apply)</u>		Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> <li>Sparsely Vegetated Concave Su</li> </ul>	Aq Ma Hy Ox Pr Re Th Th agery (B7) Ot	ater-Stained Leaves (B9) Juatic Fauna (B13) arl Deposits (B15) rdrogen Sulfide Odor (C1) idized Rhizospheres on Living F esence of Reduced Iron (C4) cent Iron Reduction in Tilled So in Muck Surface (C7) her (Explain in Remarks)		<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):		Wetland Hydrology Present? Yes No
Saturation Present?	Yes No 🟒	Depth (inches):		
(includes capillary fringe)				
Describe Recorded Data (stream ga	auge, monitoring we	ell, aerial photos, previous inspé	ections), if	available:
Remarks:				

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-06\_PEM-1

<u> Free Stratum</u> (Plot size: <u>30 ft</u> )		Dominant		Dominance Test worksheet:		
- <i>"</i>		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	4	(A)
. Salix nigra	5	Yes	OBL	Total Number of Dominant Species		
		·		- Across All Strata:	5	(B)
		·		Percent of Dominant Species That		
·				Are OBL, FACW, or FAC:	80	(A/B)
·				Prevalence Index worksheet:		
		·		- <u>Total % Cover of:</u>	Multiply E	By:
				- OBL species 55	x 1 =	55
	5	= Total Cov	er	FACW species 120	x 2 =	240
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 0	x 3 =	0
. Lonicera morrowii	10	Yes	FACU	FACU species 10	x 4 =	40
Ribes americanum	10	Yes	FACW	UPL species 0	x 5 =	0
				- Column Totals 185	(A)	335 (B
				Prevalence Index = B/A =	1.8	333 (8
·						
·				Hydrophytic Vegetation Indicators:	(	
				1- Rapid Test for Hydrophytic	vegetation	
	20	= Total Cov	er	2 - Dominance Test is >50%		
lerb Stratum (Plot size: <u>5 ft</u> )		-		$\checkmark$ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>	1 (D	
. Phalaris arundinacea	80	Yes	FACW	<ul> <li>4 - Morphological Adaptations</li> <li>data in Remarks or on a separate sl</li> </ul>		upportir
. Typha latifolia	50	Yes	OBL	<ul> <li>Problematic Hydrophytic Vege</li> </ul>		alain)
. Impatiens capensis	30	No	FACW	<sup>1</sup> Indicators of hydric soil and wetlar		
				present, unless disturbed or proble	, ,	y must b
				Definitions of Vegetation Strata:	matic	
·		· ·		Tree – Woody plants 3 in. (7.6 cm) o	r moro in d	iamotor
·				breast height (DBH), regardless of h		lameter
·		·		Sapling/shrub – Woody plants less	-	BH and
		·		greater than or equal to 3.28 ft (1 m		Dirana
0.		·		Herb – All herbaceous (non-woody)		ardless c
				size, and woody plants less than 3.2		
1		·		Woody vines – All woody vines grea		28 ft in
2		Tabal Car		height.		
	160	= Total Cov	er	Hydrophytic Vegetation Present?	Yes ./ N	0
<u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u> )						
		<u> </u>		-		
		·		-		
		·		-		
				-		
	0	= Total Cov	er			

SOIL

Indes         Color (moist)         %         Color (moist)         %         Type1         Loc2         Texture         Remarks           0.77         10YR 3/2         85         7.5YR 5/6         15         C         M/PL         Clay Loam	7 - 18	Color (moist) 10YR 3/2 10YR 3/2 	%         Color (moist)           85         7.5YR 5/6           95         7.5YR 5/6	<b>%</b> 15	Type <sup>1</sup> C	M/PL	Clay Loam	Remarks
07         10YR 3/2         85         7.5YR 5/6         15         C         M/PL         Clay Loam           7.18         10YR 3/2         95         7.5YR 5/6         5         C         M/PL         Clay Loam           7.18         10YR 3/2         95         7.5YR 5/6         5         C         M/PL         Clay Loam           7.18         10YR 3/2         95         7.5YR 5/6         5         C         M/PL         Clay Loam           7.18         10YR 3/2         95         7.5YR 5/6         5         C         M/PL         Clay Loam           9         7.5YR 5/6         5         C         M/PL         Clay Loam         Clay Loam           9         7.5YR 5/6         5         C         M/PL         Clay Loam         Clay Loam           9         7.5YR 5/6         5         C         M/PL         Clay Loam         Clay Loam           9         9         7.5YR 5/6         5         C         M/PL         Clay Loam         Clay	0 - 7 7 - 18	10YR 3/2 10YR 3/2	85 7.5YR 5/6 95 7.5YR 5/6	15	C	M/PL	Clay Loam	
7.18       10YR 3/2       95       7.5YR 5/6       5       C       M/PL       Clay Loam	ype: C = Cc ydric Soil Ir _ Histosol ( _ Histic Epi	10YR 3/2	95 7.5YR 5/6					
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       _ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       _ Thin Dark Surface (S9) (LRR R, MLRA 149B)         _ Black Histic (A3)       _ Loamy Mucky Mineral (F1) (LRR K, L)         _ Hydrogen Sulfide (A4)       _ Loamy Gleyed Matrix (F2)         _ Stratified Layers (A5)       _ Depleted Matrix (F3)         _ Depleted Below Dark Surface (A11)        Redox Dark Surface (F6)         _ Thick Dark Surface (A12)       _ Depleted Dark Surface (F7)         _ Sandy Mucky Mineral (S1)       _ Redox Depressions (F8)         _ Sandy Redox (S5)       _ Dark Surface (S7) (LRR R, MLRA 149B)         _ Stripped Matrix (S6)       _ Mexic Soil Present, unless disturbed or problematic.         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Very Shallow Dark Surface (TF12)         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         _ Sandy Redox (S5)       _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       _ Wes No         _ Type:       _ None       _ Hydric Soil Present?       Yes No         _ Depth (inches): <td>y<b>dric Soil Ir</b> _ Histosol ( _ Histic Epi</td> <td></td> <td></td> <td>     </td> <td></td> <td></td> <td></td> <td></td>	y <b>dric Soil Ir</b> _ Histosol ( _ Histic Epi			     				
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dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       _ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       _ Thin Dark Surface (S9) (LRR R, MLRA 149B)         _ Black Histic (A3)       _ Loamy Mucky Mineral (F1) (LRR K, L)         _ Hydrogen Sulfide (A4)       _ Loamy Gleyed Matrix (F2)         _ Stratified Layers (A5)       _ Depleted Matrix (F3)         _ Depleted Below Dark Surface (A11)        Redox Dark Surface (F6)         _ Thick Dark Surface (A12)       _ Depleted Dark Surface (F7)         _ Sandy Mucky Mineral (S1)       _ Redox Depressions (F8)         _ Sandy Redox (S5)       _ Dark Surface (S7) (LRR R, MLRA 149B)         _ Stripped Matrix (S6)       _ Mexic Soil Present, unless disturbed or problematic.         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Very Shallow Dark Surface (TF12)         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         _ Sandy Redox (S5)       _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       _ Wes No         _ Type:       _ None       _ Hydric Soil Present?       Yes No         _ Depth (inches): <td>y<b>dric Soil Ir</b> _ Histosol ( _ Histic Epi</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	y <b>dric Soil Ir</b> _ Histosol ( _ Histic Epi							
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dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       _ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       _ Thin Dark Surface (S9) (LRR R, MLRA 149B)         _ Black Histic (A3)       _ Loamy Mucky Mineral (F1) (LRR K, L)         _ Hydrogen Sulfide (A4)       _ Loamy Gleyed Matrix (F2)         _ Stratified Layers (A5)       _ Depleted Matrix (F3)         _ Depleted Below Dark Surface (A11)        Redox Dark Surface (F6)         _ Thick Dark Surface (A12)       _ Depleted Dark Surface (F7)         _ Sandy Mucky Mineral (S1)       _ Redox Depressions (F8)         _ Sandy Redox (S5)       _ Dark Surface (S7) (LRR R, MLRA 149B)         _ Stripped Matrix (S6)       _ Mexic Soil Present, unless disturbed or problematic.         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Very Shallow Dark Surface (TF12)         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         _ Sandy Redox (S5)       _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       _ Wes No         _ Type:       _ None       _ Hydric Soil Present?       Yes No         _ Depth (inches): <td>y<b>dric Soil Ir</b> _ Histosol ( _ Histic Epi</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	y <b>dric Soil Ir</b> _ Histosol ( _ Histic Epi							
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       _ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       _ Thin Dark Surface (S9) (LRR R, MLRA 149B)         _ Black Histic (A3)       _ Loamy Mucky Mineral (F1) (LRR K, L)         _ Hydrogen Sulfide (A4)       _ Loamy Gleyed Matrix (F2)         _ Stratified Layers (A5)       _ Depleted Matrix (F3)         _ Depleted Below Dark Surface (A11)        Redox Dark Surface (F6)         _ Thick Dark Surface (A12)       _ Depleted Dark Surface (F7)         _ Sandy Mucky Mineral (S1)       _ Redox Depressions (F8)         _ Sandy Redox (S5)       _ Dark Surface (S7) (LRR R, MLRA 149B)         _ Stripped Matrix (S6)       _ Mexic Soil Present, unless disturbed or problematic.         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Very Shallow Dark Surface (TF12)         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         _ Sandy Redox (S5)       _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       _ Wes No         _ Type:       _ None       _ Hydric Soil Present?       Yes No         _ Depth (inches): <td>y<b>dric Soil Ir</b> _ Histosol ( _ Histic Epi</td> <td></td> <td></td> <td></td> <td></td> <td>·</td> <td></td> <td></td>	y <b>dric Soil Ir</b> _ Histosol ( _ Histic Epi					·		
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       _ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       _ Thin Dark Surface (S9) (LRR R, MLRA 149B)         _ Black Histic (A3)       _ Loamy Mucky Mineral (F1) (LRR K, L)         _ Hydrogen Sulfide (A4)       _ Loamy Gleyed Matrix (F2)         _ Stratified Layers (A5)       _ Depleted Matrix (F3)         _ Depleted Below Dark Surface (A11)        Redox Dark Surface (F6)         _ Thick Dark Surface (A12)       _ Depleted Dark Surface (F7)         _ Sandy Mucky Mineral (S1)       _ Redox Depressions (F8)         _ Sandy Redox (S5)       _ Dark Surface (S7) (LRR R, MLRA 149B)         _ Stripped Matrix (S6)       _ Mexic Soil Present, unless disturbed or problematic.         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Very Shallow Dark Surface (TF12)         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         _ Sandy Redox (S5)       _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       _ Wes No         _ Type:       _ None       _ Hydric Soil Present?       Yes No         _ Depth (inches): <td>y<b>dric Soil Ir</b> _ Histosol ( _ Histic Epi</td> <td></td> <td></td> <td></td> <td></td> <td>·</td> <td></td> <td></td>	y <b>dric Soil Ir</b> _ Histosol ( _ Histic Epi					·		
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       _ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       _ Thin Dark Surface (S9) (LRR R, MLRA 149B)         _ Black Histic (A3)       _ Loamy Mucky Mineral (F1) (LRR K, L)         _ Hydrogen Sulfide (A4)       _ Loamy Gleyed Matrix (F2)         _ Stratified Layers (A5)       _ Depleted Matrix (F3)         _ Depleted Below Dark Surface (A11)        Redox Dark Surface (F6)         _ Thick Dark Surface (A12)       _ Depleted Dark Surface (F7)         _ Sandy Mucky Mineral (S1)       _ Redox Depressions (F8)         _ Sandy Redox (S5)       _ Dark Surface (S7) (LRR R, MLRA 149B)         _ Stripped Matrix (S6)       _ Mexic Soil Present, unless disturbed or problematic.         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Very Shallow Dark Surface (TF12)         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         _ Sandy Redox (S5)       _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       _ Wes No         _ Type:       _ None       _ Hydric Soil Present?       Yes No         _ Depth (inches): <td>y<b>dric Soil Ir</b> _ Histosol ( _ Histic Epi</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	y <b>dric Soil Ir</b> _ Histosol ( _ Histic Epi							
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       _ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       _ Thin Dark Surface (S9) (LRR R, MLRA 149B)         _ Black Histic (A3)       _ Loamy Mucky Mineral (F1) (LRR K, L)         _ Hydrogen Sulfide (A4)       _ Loamy Gleyed Matrix (F2)         _ Stratified Layers (A5)       _ Depleted Matrix (F3)         _ Depleted Below Dark Surface (A11)        Redox Dark Surface (F6)         _ Thick Dark Surface (A12)       _ Depleted Dark Surface (F7)         _ Sandy Mucky Mineral (S1)       _ Redox Depressions (F8)         _ Sandy Redox (S5)       _ Dark Surface (S7) (LRR R, MLRA 149B)         _ Stripped Matrix (S6)       _ Mexic Soil Present, unless disturbed or problematic.         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Very Shallow Dark Surface (TF12)         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         _ Sandy Redox (S5)       _ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       _ Wes No         _ Type:       _ None       _ Hydric Soil Present?       Yes No         _ Depth (inches): <td><b>ydric Soil Ir</b> _ Histosol ( _ Histic Epi</td> <td></td> <td>epletion, RM = Redu</td> <td>red Ma</td> <td>atrix. MS =</td> <td>Masked Sand Gr</td> <td>ains, <sup>2</sup>l ocation: P</td> <td>= Pore Lining, M = Matrix</td>	<b>ydric Soil Ir</b> _ Histosol ( _ Histic Epi		epletion, RM = Redu	red Ma	atrix. MS =	Masked Sand Gr	ains, <sup>2</sup> l ocation: P	= Pore Lining, M = Matrix
_ Histosol (A1)       _ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       _ 2 cm Muck (A10) (LRR K, L, MLRA 149B)         _ Histic Epipedon (A2)       _ Thin Dark Surface (S9) (LRR R, MLRA 149B)       _ Coast Prairie Redox (A16) (LRR K, L, R)         _ Black Histic (A3)       _ Loamy Mucky Mineral (F1) (LRR K, L)       _ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         _ Hydrogen Sulfide (A4)       _ Loamy Gleyed Matrix (F2)       _ Dark Surface (S7) (LRR K, L)         _ Stratified Layers (A5)       _ Depleted Matrix (F3)       _ Polyvalue Below Surface (S8) (LRR K, L)         _ Depleted Below Dark Surface (A11) // Redox Dark Surface (F6)       _ Thin Dark Surface (S7) (LRR K, L)       _ Polyvalue Below Surface (S9) (LRR K, L)         _ Sandy Mucky Mineral (S1)       _ Redox Depressions (F8)       _ Piedmont Floodplain Soils (F19) (MLRA 149B)         _ Sandy Redox (S5)       _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Red Parent Material (F21)         _ Stripped Matrix (S6)       _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Red Parent Material (F12)         _ Dark Surface (S7) (LRR R, MLRA 149B)       _ Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes _/ No         _ Type:       _ None       _ Hydric Soil Present?       Yes _/ No         _ Depth (inches):       _ None       _ Hydric Soil Present?       Yes _/ No </td <td>_ Histosol ( _ Histic Epi</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>*</td>	_ Histosol ( _ Histic Epi							*
		(A1)	Polyvalue	Below	Surface (	S8) (LRR R, MLRA	1 400)	•
			Thin Dark	Surfac	e (S9) <b>(LR</b>	R R, MLRA 149B)	2 CIII	
_ Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface (S7) (LRR K, L)         _ Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue Below Surface (S8) (LRR K, L)         _ Depleted Below Dark Surface (A11) / Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         _ Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         _ Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 149E)         _ Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)       Nesic Spodic (TA6) (MLRA 144A, 145, 149B)         _ Dark Surface (S7) (LRR R, MLRA 149B)       None       Other (Explain in Remarks)         ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes _/ No         strictive Layer (if observed):       None       Hydric Soil Present?       Yes _/ No         Depth (inches):       None       Hydric Soil Present?       Yes _/ No	_			-				
			-	-				-
_ Depleted Below Dark Surface (A11) Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         _ Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L)         _ Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 149E         _ Sandy Gleyed Matrix (S4)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)       Red Parent Material (F21)         _ Sandy Redox (S5)       Nerge (S7) (LRR R, MLRA 149B)       Red Parent Material (F21)         Dark Surface (S7) (LRR R, MLRA 149B)       None       Other (Explain in Remarks)         mdicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes No         Type:       None       Hydric Soil Present?       Yes No         Depth (inches):       None       Yes No         Stripped Matrix (S4)       None								
	_					7)		
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) mdicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type:NoneHydric Soil Present? Yes _✓_ No Depth (inches):	- ,	<b>,</b>	Redox De	pressic	ons (F8)			-
_Sandy Redox (S5)Red Parent Material (F21)Very Shallow Dark Surface (TF12)Other (Explain in Remarks)Other (Explain in Remarks)Other (Explain in Remarks)NoneNONE	-	-						•
_ Stripped Matrix (S6) _ Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: None Hydric Soil Present? Yes _✓_ No Depth (inches): Hydric Soil Present?	-							• • • • • • • • • • • • • • • • • • • •
_ Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: <u>None</u> Depth (inches): Yes No emarks:	_ Stripped	Matrix (S6)						
estrictive Layer (if observed): Type:NoneHydric Soil Present? Yes _✓_ No Depth (inches): emarks:	_ Dark Sur	face (S7) <b>(LRR R, M</b> l	LRA 149B)				-	
estrictive Layer (if observed): Type:NoneHydric Soil Present? Yes _✓_ No Depth (inches): emarks:	ndicators o	f hydrophytic vege	tation and wetland h	ydrolo	gy must k	pe present, unless	disturbed or probl	lematic.
Depth (inches):		· · · · ·					·	
emarks:	т	ype:	None	_		Hydric Soil Prese	ent?	Yes 🟒 No
	C	Depth (inches):		_				
positive indication of hydric soil was observed.	emarks:	dianting of budging						
	positive ind	dication of hydric s	oil was observed.					

Soil Photos



Photo of Sample Plot North

Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k	City/0	County: Canajoh	arie, Montgomer	y County	/	Sampling Date:	2022-Aug-18	
Applicant/Owner: S	ED			States	: NY		Sampling Point:	W-ABL-06_PEM	-2
Investigator(s): Abi l	ight, Ella de E	Bruijn		Section, Towr	nship, Ra	nge:			
Landform (hillslope, te	rrace, etc.):	Hillslope	Loca	al relief (concave,	, convex,	none):	None	Slope (%	): 1 to 10
Subregion (LRR or MLF	RA): LRR	L		Lat: 42.89212	206181	Long:	-74.5489677931	Datum:	WGS84
Soil Map Unit Name:	Appleton sil	t loam, 3 to 8 percent	slopes				NWI classifi	cation: R2UBH	
Are climatic/hydrologic	conditions o	n the site typical for th	nis time of year?	Yes 🟒	<u>No</u>	(If no	o, explain in Rema	irks.)	
ē <u> </u>		or Hydrology sig or Hydrology na	, <u>,</u>				tances" present? y answers in Rem		)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No							
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _					
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ABL-06					
Remarks: (Explain alternative procedures here or in a separate report)								
Covertype is PEM.								

### HYDROLOGY

Wetland Hydrology Indicators:							
Primary Indicators (minimum of on	<u>e is required;</u>	check all that	<u>apply)</u>		Secondary Indicators (minimum of two required)		
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Orift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Imagery (B7)</li> <li>Sparsely Vegetated Concave Surface (B8)</li> </ul>					<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>		
Field Observations:							
Surface Water Present?	Yes No	>_∕_	Depth (inches):				
Water Table Present?	Yes No	⊃_∕_	Depth (inches):		Wetland Hydrology Present? Yes No		
Saturation Present?	Yes No	⊃_∕_	Depth (inches):				
(includes capillary fringe)							
Describe Recorded Data (stream ga	iuge, monitor	ing well, aeria	l photos, previous inspecti	ions), if a	available:		
Remarks:							

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-06\_PEM-2

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant		Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	2	(A)
·				Total Number of Dominant Species	2	(B)
				Across All Strata:		
				<ul> <li>Percent of Dominant Species That</li> <li>Are OBL, FACW, or FAC:</li> </ul>	100	(A/B)
				Prevalence Index worksheet:		<u> </u>
				- <u>Total % Cover of:</u>	Multiply E	Bv:
				- OBL species 10	x 1 =	<b>1</b> 0
	0	= Total Cov	er	FACW species 100	x 2 =	200
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 0	x 3 =	0
				FACU species 0	x 4 =	0
				- UPL species 0	x 5 =	0
·				- Column Totals 110	(A)	210 (B)
				Prevalence Index = B/A =		210 (D)
				Hydrophytic Vegetation Indicators:		
·				1- Rapid Test for Hydrophytic		
·				2 - Dominance Test is >50%	0	
	0	= Total Cov	er	$\checkmark$ 3 - Prevalence Index is $\leq 3.0^1$		
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Adaptation	s¹ (Provide s	upporting
. Symphyotrichum lanceolatum	60	Yes	FACW	- data in Remarks or on a separate s		
. Phalaris arundinacea	40	Yes	FACW	Problematic Hydrophytic Veg	etation <sup>1</sup> (Exp	olain)
S. Scirpus atrovirens	10	No	OBL	<sup>1</sup> Indicators of hydric soil and wetla	nd hydrolog	y must be
l				present, unless disturbed or proble	ematic	
				Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm) o	or more in d	iameter a
7				breast height (DBH), regardless of	neight.	
3				Sapling/shrub – Woody plants less	than 3 in. D	BH and
).				greater than or equal to 3.28 ft (1 r	n) tall.	
0.				Herb – All herbaceous (non-woody		ardless of
1				size, and woody plants less than 3.		
2.				Woody vines – All woody vines grea	ater than 3.2	28 ft in
	110	= Total Cov	er	height.		
<u>Noody Vine Stratum (</u> Plot size: <u>30 ft</u> )		-		Hydrophytic Vegetation Present?	Yes 🟒 No	0
· · · · · · · · · · · · · · · · · · ·						
2.				-		
3.				-		
				-		
1.		= Total Cov	er	-		
4	0					

SOIL

nches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 4	10YR 3/2	95	7.5YR 5/6	5	С	M/PL	Clay Loar	n
4 - 18	10YR 3/1	95	2.5YR 4/6	5	С	M/PL	Clay Loar	n
·				· —				
·								
·								
	oncentration, D = ndicators:	Deplet	ion, RM = Reduce	d Ma	trix, MS =	Masked Sand	Grains. <sup>2</sup> L	ocation: PL = Pore Lining, M = Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue B	مامس	Surface (	58) (I DD D MI	DA 1/0R)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black His Hydroge Stratifiec Depletec Thick Da Sandy M Sandy G Sandy Re Stripped Dark Sur	n Sulfide (A4) d Layers (A5) d Below Dark Surf rk Surface (A12) lucky Mineral (S1) leyed Matrix (S4) edox (S5) l Matrix (S6) rface (S7) <b>(LRR R, N</b>	/LRA 1	Depleted Da Redox Depr 49B)	ky Mi ed M atrix Surf ark S ressic	ineral (F1 latrix (F2) (F3) ace (F6) urface (F7 ons (F8)	) (LRR K, L) 7)		<ul> <li>Coast Prairie Redox (A16) (LRR K, L, R)</li> <li>5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</li> <li>Dark Surface (S7) (LRR K, L)</li> <li>Polyvalue Below Surface (S8) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> </ul>
dicators o	of hydrophytic veg		1 and wetland hyd	drolo	gy must k	pe present, un	ess disturbe	d or problematic.
		•	None			Hydric Soil Pr	ocont?	Yes 🟒 No
strictive L	-			_		Hyunc Soli Pi	esent	fes NO
strictive L	Type: Depth (inches):							

Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South

Photo of Sample Plot West



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k		City/County: Car	najoharie, Mo	ontgomery Count	у	Sampling Date:	2022-Aug-18
Applicant/Owner: S	ED				State: NY		Sampling Point: V	V-ABL-06_PFO-1
Investigator(s): Abi L	ight, Ella de Br	uijn		Sect	ion, Township, Ra	ange:		
Landform (hillslope, te	rrace, etc.):	Channel		Local relief	(concave, convex	, none):	Concave	Slope (%): 1 to 3
Subregion (LRR or MLF	RA): LRR L			Lat:	42.8920363719	_Long:	-74.5471457474	Datum: WGS84
Soil Map Unit Name:	Churchville s	ilty clay loam, 3	to 8 percent slop	es			NWI classific	ation: R2UBH
Are climatic/hydrologic	c conditions on	the site typical	for this time of ye	ear?	Yes 🟒 No 🔄	(If no	o, explain in Remar	·ks.)
Are Vegetation, Are Vegetation,		, 0, _	significantly di naturally prob				tances" present? y answers in Rema	Yes 🟒 No arks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No							
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No					
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-ABL-06					
Remarks: (Explain alternative procedures here or in a separate report)								
Covertype is PFO.								

### HYDROLOGY

Wetland Hydrology Indicators:					
Primary Indicators (minimum of on	<u>e is required; check all t</u>	hat apply)	Secondary Indicators (minimum of two required)		
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> <li>Sparsely Vegetated Concave Surface</li> </ul>		<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>			
Field Observations:					
Surface Water Present?	Yes No 🟒	Depth (inches):	_		
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present? Yes No		
Saturation Present?	Yes No 🟒	Depth (inches):			
(includes capillary fringe)					
Describe Recorded Data (stream ga	auge, monitoring well, ae	rial photos, previous inspections), if	available:		
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-06\_PFO-1

<u>Free Stratum</u> (Plot size: <u>30 ft</u> )		Dominant		Dominance Test worksheet:		
		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	5	(A)
Salix nigra	40	Yes	OBL	Total Number of Dominant Species		
		·		- Across All Strata:	6	(B)
				Percent of Dominant Species That		
·		·		Are OBL, FACW, or FAC:	83.3	(A/B
·		·		Prevalence Index worksheet:		
		·		- <u>Total % Cover of:</u>	<u>Multiply B</u>	y:
				- OBL species 55	x 1 =	55
	40	= Total Cov	er	FACW species 60	x 2 =	120
apling/Shrub Stratum (Plot size: <u>15 ft</u> )	45		54.6	FAC species 15	x 3 =	45
. Cornus racemosa	15	Yes	FAC	- FACU species 10	x 4 =	40
. Ribes americanum	15	Yes	FACW	- UPL species 0	x 5 =	0
. Lonicera morrowii	10	Yes	FACU	- Column Totals 140	(A)	260 (B
		·		Prevalence Index = B/A =	1.9	
		·		- Hydrophytic Vegetation Indicators:		
·		·		1- Rapid Test for Hydrophytic		
·		<u> </u>		- 2 - Dominance Test is >50%	0	
	40	= Total Cov	er	$\checkmark$ 3 - Prevalence Index is $\leq 3.0^{1}$		
lerb Stratum (Plot size: <u>5 ft</u> )				4 - Morphological Adaptations	s¹ (Provide s	upportir
. Phalaris arundinacea		Yes	FACW	data in Remarks or on a separate s		
. Impatiens capensis	15	Yes	FACW	Problematic Hydrophytic Vege	etation <sup>1</sup> (Exp	olain)
. Persicaria punctata	5	No	OBL	<sup>1</sup> Indicators of hydric soil and wetlar	nd hydrolog	y must b
. Epilobium coloratum	5	No	OBL	_ present, unless disturbed or proble	ematic	
<i>Galium palustre</i>	5	No	OBL	Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm) o	or more in d	iameter
				breast height (DBH), regardless of h	-	
B				Sapling/shrub – Woody plants less		BH and
				greater than or equal to 3.28 ft (1 n		
0				Herb – All herbaceous (non-woody)		ardless o
1				size, and woody plants less than 3.		0.64 :
2				<ul> <li>Woody vines – All woody vines greater in the second second</li></ul>	ater than 3.2	81110
	60	= Total Cov	er			
<u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Present?	Yes 🟒 No	)
				_		
				_		
				_		
ŀ				_		
	0	= Total Cov	er			

SOIL

	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e Remarks
0 - 5	10YR 3/1	85	2.5YR 4/6	15	С	M/PL	Clay Loai	m
5 - 20	10YR 3/1	98	2.5YR 4/6	2	C	M/PL	Clay Loai	m
		·						
		·						
				_				
	oncentration, D =	Deple	tion, RM = Reduce	ed Ma	itrix, MS =	- Masked Sand	l Grains. <sup>2</sup> L	Location: PL = Pore Lining, M = Matrix.
<b>ric Soil</b> l Histosol	ndicators:		Polyvalue E	مامین	Curferer (			Indicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydroge Stratifie Deplete Thick Da Sandy N Sandy G Sandy R Sandy R	stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surf ark Surface (A12) lucky Mineral (S1) ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, I</b>	·	Depleted D Redox Dep	ved M latrix c Surf ark Si	atrix (F2) (F3) ace (F6) urface (F7			<ul> <li>5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</li> <li>Dark Surface (S7) (LRR K, L)</li> <li>Polyvalue Below Surface (S8) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li>Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> </ul>
icators	of hydrophytic veg	getatio	n and wetland hy	drolo	gy must k	oe present, un	less disturbe	ed or problematic.
trictive l	ayer (if observed)	:						
	Туре:		None			Hydric Soil Pi	esent?	Yes 🟒 No
	Depth (inches):							
narks:								

Soil Photos



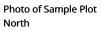


Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k	City/County:	Canajoharie, Mo	ontgomery County	/	Sampling Date:	2022-Aug-18
Applicant/Owner: S	ED			State: NY		Sampling Point: \	W-ABL-06_UPL-1
Investigator(s): Abi L	ight, Ella de B	ruijn	Sect	ion, Township, Ra	nge:		
Landform (hillslope, te	rrace, etc.):	Flat	Local relief	(concave, convex,	none):	None	Slope (%): 1 to 3
Subregion (LRR or MLF	RA): LRR I	-	Lat:	42.8941412158	Long:	-74.5541514762	Datum: WGS84
Soil Map Unit Name:	Appleton silt	loam, 3 to 8 percent slopes				NWI classific	ation:
Are climatic/hydrologic	c conditions or	n the site typical for this time	of year?	Yes 🟒 No 🔄	(If no	o, explain in Rema	rks.)
Are Vegetation, Are Vegetation,		or Hydrology significan or Hydrology naturally	5			tances" present? y answers in Rem	Yes No _ <b>_</b> arks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒							
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒					
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate report)								
Covertype is UPL. Circumstances are not normal due to agricultural activities.								

### HYDROLOGY

Wetland Hydrology Indicators:					
Primary Indicators (minimum of one	is required; check all th	<u>iat apply)</u>	Secondary Indicators (minimum of two required)		
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Imagery (B7)</li> <li>Sparsely Vegetated Concave Surface (B8)</li> </ul>		Fauna (B13) posits (B15) en Sulfide Odor (C1) d Rhizospheres on Living Roots (C3) e of Reduced Iron (C4) ron Reduction in Tilled Soils (C6) ick Surface (C7)	Stunted or Stressed Plants (D1)		
Field Observations:					
Surface Water Present?	Yes No 🟒	Depth (inches):			
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?     Yes No		
Saturation Present?	Yes No 🟒	Depth (inches):			
(includes capillary fringe)					
Describe Recorded Data (stream gau	ge, monitoring well, ae	rial photos, previous inspections), if	available:		
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-06\_UPL-1

0	·		Are OBL, FACW, or FAC: Total Number of Dominant S Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Prevalence Index worksheet:	That –	0 1 0	(A) (B) (A/B)
	·		Across All Strata: Percent of Dominant Species Are OBL, FACW, or FAC: Prevalence Index worksheet:	That –		
	·		Are OBL, FACW, or FAC: Prevalence Index worksheet:		0	(A/B)
	·		Prevalence Index worksheet:	-		
	·					
	·		Total % Cover of:		Multiply	. D
0	= Total Cov		OBL species		<u>Multiply</u> ×1=	<u>ру.</u> О
		er	FACW species (		x 2 =	0
	-		· · · · · · · · · · · · · · · · · · ·		-	
			FAC species		x 3 =	0
			FACU species (		x 4 =	0
	·		UPL species 8		x 5 =	400
	·		Column Totals 8	0	(A)	400 (B)
			Prevalence Index =	B/A =	5	
			Hydrophytic Vegetation Indic	ators:		
			1- Rapid Test for Hydro	phytic Ve	egetatior	า
			2 - Dominance Test is >	50%	-	
0	= Total Cov	er	3 - Prevalence Index is :	≤ 3.0 <sup>1</sup>		
			4 - Morphological Adap	tations <sup>1</sup>	(Provide	supporting
80	Yes	UPL				
						xplain)
				0	-	
			,		,	8)
	······································		-		more in	diameter a
						alameter a
					-	DBH and
	······································					gardless of
	·		-	2.1		Bai aless of
						3.28 ft in
	······································			8		
80	= Total Cov	er		ant V		
			Hydrophytic vegetation Pres	sent? re	2S I	NO <u>7</u>
0	= Total Cov	er				
	0 80 80 80 80 80 0 eet.)	0 = Total Cov 80 Yes 	0       = Total Cover         80       Yes       UPL	Prevalence Index =         Prevalence Index =         Hydrophytic Vegetation Indic         0       = Total Cover         3       Prevalence Index is >         2       Dominance Test is >         3       Prevalence Index is :         3       Prevalence Index is :         4       Morphological Adap         data in Remarks or on a sepa         Problematic Hydrophyt         'Indicators of hydric soil and         present, unless disturbed or         Definitions of Vegetation Strations of Vegetation Strations         Tree - Woody plants 3 in. (7.6         breast height (DBH), regardle         Sapling/shrub - Woody plant         greater than or equal to 3.28         Herb - All herbaceous (non-visize, and woody plants less t         Woody vines - All woody vine         height.         Hydrophytic Vegetation Preside.         0       = Total Cover	Prevalence Index = B/A =	Prevalence Index = B/A =         Hydrophytic Vegetation Indicators:         1 - Rapid Test for Hydrophytic Vegetation         0 = Total Cover         3 - Prevalence Index is > 50%         9 = Total Cover         10 = Total Cover

SOIL

nches) Col	or (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup> Text	ure	Remarks
0 - 16 10YR 3/2				_		Clay L	oam	
		·		-				
		·		: <u>—</u>				
		·		·				
		·		·				
		epletio	n, RM = Reduced	Mat	rix, MS =	Masked Sand Grains.		Pore Lining, M = Matrix.
<b>lric Soil Indicat</b> Histosol (A1)	ors:			_		8) (LRR R, MLRA 149B)		for Problematic Hydric Soils <sup>3</sup> :
Thick Dark Sur Sandy Mucky N Sandy Gleyed	3) ide (A4) rs (A5) w Dark Surfac face (A12) Mineral (S1) Matrix (S4)	e (A11)	Thin Dark Su Loamy Muck Loamy Gleye Depleted Ma Redox Dark S Depleted Dar Redox Depre	y Min d Ma trix (F Gurfao k Sur	eral (F1) ( trix (F2) -3) ce (F6) rface (F7)	(LRR K, L)	Coast P 5 cm M Dark Su Polyval Thin Da Iron-Ma Piedmo	uck (A10) <b>(LRR K, L, MLRA 149B)</b> rairie Redox (A16) <b>(LRR K, L, R)</b> ucky Peat or Peat (S3) <b>(LRR K, L, R)</b> urface (S7) <b>(LRR K, L)</b> ue Below Surface (S8) <b>(LRR K, L)</b> ark Surface (S9) <b>(LRR K, L)</b> anganese Masses (F12) <b>(LRR K, L, R)</b> unt Floodplain Soils (F19) <b>(MLRA 149B)</b> podic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Stripped Matri	ix (S6)	RA 149	9B)				Very Sh	rent Material (F21) allow Dark Surface (TF12) Explain in Remarks)
Stripped Matri Dark Surface ( dicators of hyd	x (S6) S7) <b>(LRR R, ML</b> rophytic vege			olog	y must be	e present, unless distu	Very Sh Other (	allow Dark Surface (TF12) Explain in Remarks)
Stripped Matri Dark Surface ( dicators of hyde strictive Layer (i	x (S6) S7) <b>(LRR R, ML</b> rophytic vege		and wetland hydr	olog	y must be		Very Sh Other ( rbed or problem	allow Dark Surface (TF12) Explain in Remarks) natic.
<b>trictive Layer (</b> i Type:	x (S6) S7) <b>(LRR R, ML</b> rophytic vege			olog	y must be	e present, unless distu Hydric Soil Present?	Very Sh Other ( rbed or problem	allow Dark Surface (TF12) Explain in Remarks)

#### Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek	City/County: Canajoharie, Montgomery County	Sampling Date: 2022-Aug-18
Applicant/Owner: SED	State: NY	Sampling Point: W-ABL-06_UPL-2
Investigator(s): Abi Light, Ella de Bruijn	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none)	: None Slope (%): 1 to 10
Subregion (LRR or MLRA): LRR L	Lat: 42.8919603188 Long	: -74.5486103643 Datum: WGS84
Soil Map Unit Name: Appleton silt loam, 3 to 8 pe	ercent slopes	NWI classification:
Are climatic/hydrologic conditions on the site typica	I for this time of year? Yes 🖌 No (If r	io, explain in Remarks.)
	significantly disturbed? Are "Normal Circum naturally problematic? (If needed, explain a	stances" present? Yes _✔ No ny answers in Remarks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedure	es here or in a separate repo	rt)	
Covertype is UPL.			

### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of one is required; check all that apply)		Stained Leaves (B9) Fauna (B13) eposits (B15) en Sulfide Odor (C1) d Rhizospheres on Living Roots (C3) ce of Reduced Iron (C4) Iron Reduction in Tilled Soils (C6) uck Surface (C7)	Secondary Indicators (minimum of Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Stunted or Stressed Plants (D' Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)	hagery (C9)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream ga	Yes No Yes No Yes No auge, monitoring well, ae	Depth (inches): Depth (inches): Depth (inches): erial photos, previous inspections), if	- Wetland Hydrology Present? - available:	Yes No <b>/</b>
Remarks:				

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-06\_UPL-2

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant	Indicator	Dominance Test worksheet:		
1.	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
2.				Total Number of Dominant Species Across All Strata:	3	(B)
3 4.				Percent of Dominant Species That	33.3	 (A/B)
4 5				Are OBL, FACW, or FAC:		
6.				<ul> <li>Prevalence Index worksheet:</li> <li><u>Total % Cover of:</u></li> </ul>	Multiply D	
7				- OBL species 0	<u>Multiply By</u> x 1 =	<b>y.</b> 0
	0	= Total Cov	er	FACW species 0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )		-		· · · · · · · · · · · · · · · · · · ·		
1. Cornus racemosa	5	Yes	FAC	FAC species 5	x 3 =	15
2. Rosa multiflora	5	Yes	FACU	FACU species 105	x 4 =	420
3.				UPL species 0	x 5 =	0
4.				Column Totals 110	(A)	435 (B
5.				Prevalence Index = B/A =	4	
5. 5.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	Vegetation	
	10	= Total Cov	or	2 - Dominance Test is > 50%		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )	10	- 10tai COV	CI	$\_$ 3 - Prevalence Index is $\le 3.0^1$		
	100	Vac	FACU	4 - Morphological Adaptations	1 (Provide su	upportir
1. <i>Solidago canadensis</i>	100	Yes	FACU	- data in Remarks or on a separate s	neet)	
2				Problematic Hydrophytic Vege	etation <sup>1</sup> (Exp	lain)
3				<sup>1</sup> Indicators of hydric soil and wetlar	nd hydrology	<sup>,</sup> must b
4.				present, unless disturbed or proble	matic	
5				Definitions of Vegetation Strata:		
6				Tree – Woody plants 3 in. (7.6 cm) o	r more in di	ameter
7.				breast height (DBH), regardless of h	neight.	
8.				Sapling/shrub – Woody plants less	han 3 in. DE	H and
9.				greater than or equal to 3.28 ft (1 m	n) tall.	
10.				Herb – All herbaceous (non-woody)	plants, rega	rdless c
11				size, and woody plants less than 3.2	28 ft tall.	
12				Woody vines – All woody vines grea	ter than 3.2	8 ft in
	100	= Total Cov	or	height.		
Woody Vine Stratum (Plot size: <u>30 ft</u> )	100			Hydrophytic Vegetation Present?	Yes No	_
• • • • •						
1				-		
2				-		
3				-		
4				-		
	0	= Total Cov	er			

SOIL

Depth	Matrix		Redox	locun Feat	ures			
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 18	10YR 4/2	99	7.5YR 4/6	1	C	М	Clay Loam	
				·				
				-				
				· —		<u> </u>		
 ype: C = C	oncentration, D = [	Depleti	on, RM = Reduced	d Mat	rix, MS =	Masked Sar	d Grains. <sup>2</sup> Loca	ation: PL = Pore Lining, M = Matrix.
dric Soil I	ndicators:						li	ndicators for Problematic Hydric Soils <sup>3</sup> :
_Black Hi	vipedon (A2)		Polyvalue Be Thin Dark Su Loamy Muck Loamy Gleye	rface y Mir	(S9) <b>(LRR</b> neral (F1)	R, MLRA 14	-9B) - -	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b> Coast Prairie Redox (A16) <b>(LRR K, L, R)</b> 5 cm Mucky Peat or Peat (S3) <b>(LRR K, L, R)</b> Dark Surface (S7) <b>(LRR K, L)</b>
_ Deplete	d Layers (A5) d Below Dark Surfa	ce (A1´	Depleted Ma Redox Dark !				-	Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
	irk Surface (A12) lucky Mineral (S1)		Depleted Da Redox Depre				-	Iron-Manganese Masses (F12) (LRR K, L, R)
-	leyed Matrix (S4) edox (S5)						-	Piedmont Floodplain Soils (F19) <b>(MLRA 149B)</b> Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	Matrix (S6)							Red Parent Material (F21)
	rface (S7) <b>(LRR R, M</b>	LRA 14	I9B)					Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
	of hydrophytic vege		and wetland hyd	rolog	y must be	e present, u	nless disturbed o	or problematic.
	ayer (if observed):		None			Lludric Coil	Drocont?	Vec No (
	Type: Depth (inches):		None			Hydric Soi	Present?	Yes No
emarks:	Deptir (inches).			·				

Soil Photos



Photo of Sample Plot North



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

Photo of Sample Plot East



Photo of Sample Plot South

Photo of Sample Plot West



## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k	City/Coι	unty: Canajoharie, Mc	ontgomery County	/	Sampling Date:	2022-Aug-18	
Applicant/Owner: S	ED			State: NY		Sampling Point: V	V-ABL-07_PEM-1	
Investigator(s): Abi L	ight, Ella de B	ruijn	Sect	ion, Township, Ra	nge:			
Landform (hillslope, te	rrace, etc.):	Channel	Local relief	(concave, convex,	none):	Concave	Slope (%): 1	l to 10
Subregion (LRR or MLF	RA): LRR I	-	Lat:	42.8908562613	Long:	-74.5503875986	Datum: WG	S84
Soil Map Unit Name:	Appleton silt	loam, 3 to 8 percent slo	pes (ApB)			NWI classific	ation:	
Are climatic/hydrologic	c conditions or	the site typical for this	time of year?	Yes 🟒 No 🔄	(If no	, explain in Remar	rks.)	
Are Vegetation, Are Vegetation,		or Hydrology signit or Hydrology natu				ances" present? y answers in Rema	Yes No arks.)	✓

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ABL-07
Remarks: (Explain alternative procedur	es here or in a separate re	port)	
Covertype is PEM. Ditches/drain tiles of	bserved.		

### HYDROLOGY

Wetland Hydrology Indicators:					
Primary Indicators (minimum of or	<u>ne is required; check all tha</u>	at apply)	Secondary Indicators (minimum of two required)		
	High Water Table (A2)		Stunted or Stressed Plants (D1)		
Field Observations:					
Surface Water Present?	Yes No 🟒	Depth (inches):			
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present? Yes _ No		
Saturation Present?	Yes 🟒 No	Depth (inches): 5			
(includes capillary fringe)					
Describe Recorded Data (stream g	auge, monitoring well, aer	ial photos, previous inspections), i	<sup>-</sup> available:		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-07\_PEM-1

	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	۲hat م	(A)
10	Yes	FACW	Are OBL, FACW, or FAC:		(A)
10	Yes	FACU	Total Number of Dominant Spe Across All Strata:	ecies 6	(B)
	·			hat 50	(A/B)
				Multiph	/ Bv
					35
20	= Total Cov	er	· · · · · · · · · · · · · · · · · · ·		110
					0
10	Yes	FACU			160
					0
					0
					n
			, , , ,	, 0	
10	= Total Cov	er			
					sunnortir
30	Yes	FACW			supporti
20	Yes	OBL			xplain)
20	Yes	FACU			
10	No	FACW	3	5	0)
10	No	OBL	Definitions of Vegetation Strata	):	
5	No	OBL	-		diameter
5	No	FACW			
			Sapling/shrub – Woody plants	ess than 3 in.	DBH and
			greater than or equal to 3.28 ft	: (1 m) tall.	
					egardless c
				greater than i	3.28 ft in
100	= Total Cov	er	height.		
	-		Hydrophytic Vegetation Prese	nt?Yes 🖌	No
			-		
0	= Total Cov	er			
	10         10         10         20         10         20         10         20         10         20         10         20         10         30         20         10         30         20         10         30         20         10         5         5         5         5         5         5	10       Yes         10       Yes         10       Yes         20       = Total Cov         10       Yes         10       Yes         20       = Total Cov         10       Yes         10       Yes         10       Yes         20       Yes         20       Yes         20       Yes         10       No         10       No         5       No         5       No         5       No         20       Yes         10       No         5       No         20       Yes         20       Yes	10         Yes         FACW           10         Yes         FACU           10         Yes         FACU           20         = Total Cover           10         Yes         FACU           20         = Total Cover           10         Yes         FACU           10         Yes         FACU           10         Yes         FACU           10         Yes         FACU           20         Yes         FACW           20         Yes         FACU           10         No         FACW           20         Yes         FACU           10         No         FACW           20         Yes         FACW           20         Yes         FACW           10         No         OBL           5         No         OBL           5         No         FACW           20         Yes         FACW	10       Yes       FACW         10       Yes       FACU         10       Facu       Column Totals       130         10       Prevalence Index = B       Hydrophytic Vegetation Indicat         10       FACW       Seprices       0         10       FACW       Seprices       10         10       No       FACW       Prevalence Index is ≤         10       No       GBL       Problematic Hydrophytic	10       Yes       FACW         10       Yes       FACU         FACU       FACU species       35         10       Yes       FACU         FACU species       0       x 4 =         UPL species       0       x 5 =         Column Totals       130       (A)         Prevalence Index = B/A =       2.3         Hydrophytic Vegetation Indicators:

SOIL

inches)         Color (moist)         %         Type!         Loc?         Texture         Remarks           04         1078.3/3         90         5YR 5/8         10         C         M/PL         Clay		Matrix		Redo	x Fea	tures			
4.18       N 5/ 50       10 YR 5/6       10       C       M       Clay         4.18       10 YR 4/2       40       Clay       Clay         2       Clay       Clay       Clay         2       Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Micro Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Micro Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         Mydric Soil Indicators:       Indicators:       Indicators:       Indicators:         Histosol (A1)       Polyvalue Below Surface (S3) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LR K, L, R)         Black Histic (A3)       Loamy Gleyed Matrix (F2)       Dark Surface (S1) (LR K, L, R)	inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
4 - 18       10YR 4/2       40       Clay         Ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains.       *Location: PL = Pore Lining, M = Matrix.         ydric Soil Indicators:       Indicators for Problematic Hydric Soils*:         Histics Dipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Black Histic (A3)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       ∠ Depleted Matrix (F2)         Stratified Below Dark Surface (A11)       Redox Dark Surface (F7)         Thin Dark Surface (F7)       Thin Dark Surface (F7)         Stratified Layers (A5)       ∠ Depleted Matrix (F2)         Stratified Layers (A5)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Stripped Matrix (S6)       Wery Shallow Dark Surface (F7)         Dark Surface (S7) (LRR R, MLRA 149B)       Red Parent Material (F21)         Stripped Matrix (S6)       Wery Shallow Dark Surface (F7)         Dark Surface (S7)       Red Parent Material (F21)         Depleted Matrix (S6)       Wery Shallow Dark Surface (F7)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)         Indicat	0 - 4	10YR 3/3	90	5YR 5/8	10	С	M/PL	Clay Loa	m
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)      2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histosol (A2)	4 - 18	N 5/	50	10YR 5/6	10	С	Μ	Clay	
vdric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         _ Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         _ Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Stripped Matrix (S6)       Mesic Spodic (TA6) (MLRA 1449, 145, 149B)         Stripped Matrix (S6)       Mesic Soil Present?         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       None         Depth (inches):       None         Depth (inches):       None         Depth (inches):       None	4 - 18	10YR 4/2	40					Clay	
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         _ Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         _ Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 1449, 145, 149B)         Stripped Matrix (S6)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Dark Surface (S7) (LRR R, MLRA 149B)       Very Shallow Dark Surface (TF12)         Dark Surface (S7) (LRR R, MLRA 149B)       None         Depth (inches):       None         Type:       None         Depth (inches):       None         Depth (inches):       None									
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         _ Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         _ Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 1449A)         Dark Surface (S7) (LRR R, MLRA 149B)       None         Dark Surface (S7) (LRR R, MLRA 149B)       None         Depth (inches):       None         Mydric Soil Present?       Yes No									
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         _ Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         _ Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         _ Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 1449A)         Dark Surface (S7) (LRR R, MLRA 149B)       None         Dark Surface (S7) (LRR R, MLRA 149B)       None         Depth (inches):       None         Mydric Soil Present?       Yes No									
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)        Sandy Redox (S5)									
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)									
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)									
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       ✓ Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Stratified Layers (S4)      Redox Depressions (F8)        Sandy Gleyed Matrix (S4)									
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)        Sandy Redox (S5)									
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)         Stratified Layers (A5)      Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)      Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)         Sandy Redox (S5)							<u> </u>		
Histosol (A1)      Polyvalue Below Surface (S8) (LRR R, MLRA 149B)      2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)      Thin Dark Surface (S9) (LRR R, MLRA 149B)      Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)      S cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)      Dark Surface (S7) (LRR K, L)      S cm Mucky Peat or Peat (S3) (LRR K, L)         Stratified Layers (A5)      Depleted Matrix (F3)      Dark Surface (S7) (LRR K, L)      Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)      Thin Dark Surface (S9) (LRR K, L)      Dark Surface (S9) (LRR K, L)         Sandy Mucky Mineral (S1)      Redox Depressions (F8)      Inedox Dark Surface (F7)      Inedox Dark Surface (S7) (LRR A, 149B)         Sandy Redox (S5)			Deple	tion, RM = Reduce	ed Ma	trix, MS :	= Masked	Sand Grains. <sup>2</sup> L	
Histic Epipedon (A2)									Indicators for Problematic Hydric Soils <sup>3</sup> :
Black Histic (A3)      Loamy Mucky Mineral (F1) (LRR K, L)      Coust Haine Redox (N3) (LRR K, C) (LRR K, L, R)         Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)      S cm Mucky Peat or Peat (S3) (LRR K, L, R)         Stratified Layers (A5)      Depleted Matrix (F3)      Dark Surface (S7) (LRR K, L)        Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)      Dolyvalue Below Surface (S9) (LRR K, L)        Sandy Mucky Mineral (S1)      Redox Depressions (F8)      Iron-Manganese Masses (F12) (LRR K, L, R)        Sandy Redox (S5)	-			•					2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)      S thi Midcky Peat Or Peat (S3) (LRR K, L, R)        Stratified Layers (A5)      Depleted Matrix (F3)      Dark Surface (S7) (LRR K, L)        Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)      Thin Dark Surface (S9) (LRR K, L)        Thick Dark Surface (A12)      Depleted Dark Surface (F7)      Thin Dark Surface (S9) (LRR K, L, R)        Sandy Mucky Mineral (S1)      Redox Depressions (F8)      Iron-Manganese Masses (F12) (LRR K, L, R)        Sandy Redox (S5)      Redox Depressions (F8)      Mesic Spodic (TA6) (MLRA 1449B)        Sandy Redox (S5)      Red Parent Material (F21)      Very Shallow Dark Surface (TF12)        Dark Surface (S7) (LRR R, MLRA 149B)									
Stratified Layers (A5) <ul> <li>✓ Depleted Matrix (F3)</li> <li>Øepleted Below Dark Surface (A11)</li> <li>Redox Dark Surface (F7)</li> <li>Sandy Mucky Mineral (S1)</li> <li>Redox Depressions (F8)</li> <li>Sandy Gleyed Matrix (S4)</li> <li>Sandy Redox (S5)</li> <li>Stripped Matrix (S6)</li> <li>Dark Surface (S7) (LRR R, MLRA 149B)</li> <li>Gicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</li> </ul> strictive Layer (if observed):   Type:   None   Depth (inches):	-			,	-	-		-)	-
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)       Polyvalue Below Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Thin Dark Surface (S9) (LRR K, L, R)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 149E)         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)       Other (Explain in Remarks)         dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes No         Type:       None       Hydric Soil Present?       Yes No         Depth (inches):       None       Yes No         Type:       None       Yes No									
Inick Dark Surface (A12)			ace (A						-
Sandy Mucky Mineral (S1)Redox Depressions (F8)	Thick Da	ark Surface (A12)					7)		
Sandy Gleyed Matrix (54)	-			Redox Dep	ressic	ns (F8)			
_Sandy Redox (S5)									• • • • • • •
_ Stripped Matrix (S6) _ Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: None Hydric Soil Present? Yes _✓_ No Depth (inches): Type: Yes _✓_ No	-								• • • • • • • • • • • • • • • • • • • •
_ Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) adicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: None Hydric Soil Present? Yes _✓_ No Depth (inches): Free No									
strictive Layer (if observed):     Type:     None       Depth (inches):     Hydric Soil Present?     Yes _ ✓ No	_ Dark Su	rface (S7) <b>(LRR R, I</b>	MLRA 1	49B)					Other (Explain in Remarks)
strictive Layer (if observed):     Type:     None       Depth (inches):     Hydric Soil Present?     Yes _ ✓ No	dicators	of hydrophytic veg	getatio	n and wetland hy	drolo	gy must	be presen	t, unless disturbe	ed or problematic.
Depth (inches):	strictive l	Layer (if observed)	:			_			
marks:		Туре:		None	_		Hydric S	oil Present?	Yes 🟒 No
		Depth (inches):			-				
	ositive ir	ndication of hydric	soil w	as observed.					

Soil Photos

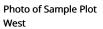


Photo of Sample Plot North

#### Photo of Sample Plot East



Photo of Sample Plot South





## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k	City	//County: Can	ajoharie, Mo	ntgomery Count	y	Sampling Date	: 2022-Aug-19
Applicant/Owner: S	ED				State: NY		Sampling Point:	W-ABL-07_PFO-1
Investigator(s): Abi L	ight, Ella de B	ruijn		Sect	ion, Township, Ra	ange:		
Landform (hillslope, te	rrace, etc.):	Hillslope		Local relief	(concave, convex	, none):	Concave	Slope (%): 1 to 10
Subregion (LRR or MLF	RA): LRR I	-		Lat:	42.8906756375	Long:	-74.5507413551	Datum: WGS84
Soil Map Unit Name:	Appleton silt	loam, 3 to 8 percer	nt slopes (ApB)	)			NWI classifi	cation:
Are climatic/hydrologic	c conditions or	the site typical for	this time of ye	ear?	Yes 🟒 No _	(If no	o, explain in Rema	arks.)
Are Vegetation, Are Vegetation,		or Hydrology s or Hydrology	0 ,				tances" present? ly answers in Rem	

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-ABL-07
Remarks: (Explain alternative procedures he	re or in a separate report	)	
Covertype is PFO. Area is wetland, all three v	vetland parameters are p	resent.	

### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	ne is required; check all the	<u>at apply)</u>	Secondary Indicators (minimum of two required)	
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> <li>Sparsely Vegetated Concave Surface</li> </ul>		<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>		
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):		
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present? Yes No	
Saturation Present?	Yes 🟒 No	Depth (inches): 0		
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring well, aer	ial photos, previous inspections),	if available:	

# VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-07\_PFO-1

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That	3	
. Populus deltoides	40	Yes	FAC	Are OBL, FACW, or FAC:		(A)
. Ulmus americana	30	Yes	FACW	Total Number of Dominant Species	; 5	(B)
Acer saccharum	20	Yes	FACU	Across All Strata:		(8)
				Percent of Dominant Species That	60	(A/B
				Are OBL, FACW, or FAC:		
				Prevalence Index worksheet:	N 4 145	D
				- <u>Total % Cover of:</u> - OBL species 0	<u>Multiply</u> x 1 =	<u>ру.</u> О
	90	= Total Cov	er	FACW species 125	x 2 =	250
apling/Shrub Stratum (Plot size: <u>15 ft</u> )		-		FAC species 40	x3=	120
Fraxinus americana	5	Yes	FACU	- FACU species 40		140
				- UPL species 0	x 4	0
				- Column Totals 200		510 (B
				Prevalence Index = B/A =	(A) 2.6	510 (B
				Hydrophytic Vegetation Indicators:		
				1- Rapid Test for Hydrophytic	vegetation	I
	5	= Total Cov	er	2 - Dominance Test is >50% ✓ 3 - Prevalence Index is $\leq 3.0^1$		
erb Stratum (Plot size: <u>5 ft</u> )				4 - Morphological Adaptation	-1 (Provido	cupportin
Impatiens capensis	80	Yes	FACW	- data in Remarks or on a separate s		supporti
Onoclea sensibilis	10	No	FACW	<ul> <li>Problematic Hydrophytic Veg</li> </ul>		olain)
. Parthenocissus quinquefolia	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetla		
. Osmundastrum cinnamomeum	5	No	FACW	present, unless disturbed or proble	,	8,
. Geranium robertianum	5	No	FACU	Definitions of Vegetation Strata:		
·				Tree – Woody plants 3 in. (7.6 cm)	or more in (	diameter
				breast height (DBH), regardless of	height.	
				Sapling/shrub – Woody plants less	than 3 in. [	OBH and
				greater than or equal to 3.28 ft (1 r		
0				Herb – All herbaceous (non-woody		gardless c
1				size, and woody plants less than 3.		
2				Woody vines – All woody vines gre	ater than 3	.28 ft in
	105	= Total Cov	er	height.		
<u>/oody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Present?	Yes 🟒 N	lo
·				_		
·				_		
				_		
l				_		
	0	= Total Cov	er			

SOIL

(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure Remarks
0 - 2	10YR 2/2	100					Silty Clay	y Loam
2 - 18	10YR 2/1	98	7.5YR 4/4	2	C		Clay L	oam
		·		·				
		·						
		·		·				
				·				
	oncentration, D =	Depletio	n, RM = Reduced	Matr	rix, MS =	Masked S	and Grains. <sup>2</sup> Lo	ocation: PL = Pore Lining, M = Matrix.
/ <b>dric Soil I</b> _ Histosol	ndicators:		Polyvalue Bel		с <i>(</i> с			Indicators for Problematic Hydric Soils <sup>3</sup> :
Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped	stic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfa irk Surface (A12) lucky Mineral (S1) ileyed Matrix (S4) edox (S5) d Matrix (S6) rface (S7) <b>(LRR R, N</b>		Depleted Dar Redox Depre	y Min d Ma trix (F Surfac k Sur	eral (F1) trix (F2) -3) ce (F6) rface (F7)	(LRR K, L)		<ul> <li>Coast Prairie Redox (A16) (LRR K, L, R)</li> <li>5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</li> <li>Dark Surface (S7) (LRR K, L)</li> <li>Polyvalue Below Surface (S8) (LRR K, L)</li> <li>Thin Dark Surface (S9) (LRR K, L)</li> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 1445, 149B</li> <li>Red Parent Material (F21)</li> <li>Very Shallow Dark Surface (TF12)</li> <li>Other (Explain in Remarks)</li> </ul>
	of hydrophytic veg		and wetland hydr	ology	y must be	e present,	unless disturbe	d or problematic.
	ayer (if observed):		Nama			l huduin C	ail Duanant2	Vac ( Na
	Type: Depth (inches):		None			Hydric S	oil Present?	Yes _ 🖌 No
emarks: positive ir	ndication of hydric	soil was	observed.					

#### Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



Project/Site: Flat Creek	City/County: Canajoharie, Montgomery County	Sampling Date: 2022-Aug-19
Applicant/Owner: SED	State: NY	Sampling Point: W-ABL-07_UPL-1
Investigator(s): Abi Light, Ella de Bruijn	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none):	None Slope (%): 1 to 3
Subregion (LRR or MLRA): LRR L	Lat: 42.8906772367 Long:	-74.5506318303 Datum: WGS84
Soil Map Unit Name: Appleton silt loam, 3 to 8 pe	rcent slopes (ApB)	NWI classification:
Are climatic/hydrologic conditions on the site typical	for this time of year? Yes _∠_ No (If n	o, explain in Remarks.)
	significantly disturbed? Are "Normal Circums naturally problematic? (If needed, explain ar	tances" present? Yes _✔ No ny answers in Remarks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedure	s here or in a separate repo	rt)	
Covertype is UPL.			

### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of on	<u>e is required; check all t</u>	hat apply)	Secondary Indicators (minimum of t	<u>wo required)</u>
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> <li>Sparsely Vegetated Concave Surface</li> </ul>	Aquatio Marl D Hydrog Oxidize Presen Recent Thin M gery (B7) Other (	Stained Leaves (B9) c Fauna (B13) eposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3) ce of Reduced Iron (C4) Iron Reduction in Tilled Soils (C6) uck Surface (C7) Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Image</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>	gery (C9)
Field Observations:				
Surface Water Present?	Yes No 🟒	Depth (inches):	_	
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒
Saturation Present?	Yes No 🟒	Depth (inches):		
(includes capillary fringe)				
Describe Recorded Data (stream ga	auge, monitoring well, a	erial photos, previous inspections), if	available:	
Remarks:				

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-07\_UPL-1

ree Stratum (Plot size: <u>30 ft</u> )		Dominant		Dominance Test worksheet:		
		Species?	Status	Number of Dominant Species Tha	t 1	(A)
Acer saccharum	95	Yes	FACU	Are OBL, FACW, or FAC: Total Number of Dominant Specie		
				Across All Strata:	<sup>5</sup> 4	(B)
				Percent of Dominant Species That		
				Are OBL, FACW, or FAC:	25	(A/B)
·				Prevalence Index worksheet:		
		·		- <u>Total % Cover of:</u>	Multiply	By:
		·		OBL species 0	x 1 =	0
	95	= Total Cov	er	FACW species 2	x 2 =	4
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 0	x 3 =	0
Fraxinus americana	5	Yes	FACU	FACU species 105	x 4 =	420
				UPL species 0	x 5 =	0
				Column Totals 107	(A)	424 (B
				Prevalence Index = B/A =		121 (8
				Hydrophytic Vegetation Indicators		
. <u> </u>				1- Rapid Test for Hydrophytic	. vegetation	
	5	= Total Cov	er	2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ $3.0^{\circ}$		
<u>erb Stratum</u> (Plot size: <u>5 ft</u> )		-		$_{}$ 3 - Prevalence index is $\leq$ 3.0		cupportin
Dryopteris campyloptera	5	Yes	FACU	- data in Remarks or on a separate		supportin
. Impatiens capensis	2	Yes	FACW	Problematic Hydrophytic Veg		nlain)
				<sup>1</sup> Indicators of hydric soil and wetla		
				present, unless disturbed or probl		gy must b
				Definitions of Vegetation Strata:		
		·		Tree – Woody plants 3 in. (7.6 cm)	or more in i	diameter
				breast height (DBH), regardless of		
		·		Sapling/shrub – Woody plants less	-	OBH and
				greater than or equal to 3.28 ft (1		
				Herb – All herbaceous (non-woody		gardless o
0		·		size, and woody plants less than 3		-
1		·		Woody vines – All woody vines gre	ater than 3	.28 ft in
2	7	= Total Cov	or	height.		
Voody Vine Stratum (Plot size: <u>30 ft</u> )	/	- 10tai COV	CI	Hydrophytic Vegetation Present?	Yes N	lo 🖌
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
		<u> </u>		-		
·				-		
		·		-		
·				-		
	0	= Total Cov	er			

SOIL

Depth Matrix	Redox	Features		
inches) Color (moist)	% Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup> Textu	ure Remarks
0 - 8 10YR 3/2	100		Clay L	oam
			·	
	<u> </u>		·	
			<u> </u>	
	·		·	
			·	·
/pe: C = Concentration, D = De	pletion, RM = Reduced	Matrix, MS =	Masked Sand Grains.	<sup>2</sup> Location: PL = Pore Lining, M = Matrix.
dric Soil Indicators:				Indicators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol (A1)	•		8) (LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
_ Histic Epipedon (A2) Black Histic (A3)	Thin Dark Sur Loamy Mucky			Coast Prairie Redox (A16) (LRR K, L, R)
_ Hydrogen Sulfide (A4)	Loamy Gleyed			5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
_ Stratified Layers (A5)	Depleted Mat			Dark Surface (S7) (LRR K, L)
_ Depleted Below Dark Surface				Polyvalue Below Surface (S8) (LRR K, L)
_ Thick Dark Surface (A12)	Depleted Dar	k Surface (F7)		Thin Dark Surface (S9) <b>(LRR K, L)</b> Iron-Manganese Masses (F12) <b>(LRR K, L, R)</b>
_Sandy Mucky Mineral (S1)	Redox Depre	ssions (F8)		Piedmont Floodplain Soils (F12) (LRR K, L, R)
_ Sandy Gleyed Matrix (S4)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
_ Sandy Redox (S5)				Red Parent Material (F21)
_ Stripped Matrix (S6)				Very Shallow Dark Surface (TF12)
Dark Surface (S7) <b>(LRR R, MLF</b>	≀A 149B)			Other (Explain in Remarks)
ndicators of hydrophytic vegeta	ation and wetland hvdr	ology must b	e present, unless distur	bed or problematic.
estrictive Layer (if observed):		0)		···· [ ··· · ···
Type:	Bedrock		Hydric Soil Present?	Yes No _
Depth (inches):	8		-	
emarks:				

#### Soil Photos



Project/Site: Flat Cree	k	City/Co	<b>unty:</b> Canajoharie, M	Iontgomery County	/	Sampling Date:	2022-Aug-19
Applicant/Owner: S	ED			State: NY		Sampling Point:	W-ABL-08_PEM-1
Investigator(s): Abi L	ight, Ella de B	ruijn	See	ction, Township, Ra	inge:		
Landform (hillslope, te	rrace, etc.):	Hillslope	Local relie	f (concave, convex,	, none):	Undulating	Slope (%): 1 to 3
Subregion (LRR or MLF	RA): LRR I		Lat	42.8898328976	Long:	-74.5516003053	Datum: WGS84
Soil Map Unit Name:	Appleton silt	loam, 3 to 8 percent slo	opes			NWI classifi	cation:
Are climatic/hydrologic	conditions or	the site typical for this	time of year?	Yes 🟒 No 🔄	(If no,	, explain in Rema	ırks.)
Are Vegetation, Are Vegetation,		or Hydrology signi or Hydrology natu	<b>,</b>			ances" present? / answers in Rem	

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-ABL-08
Remarks: (Explain alternative procedures he	re or in a separate report		
Covertype is PEM. ATV/ORV impacts observe	d.		

#### HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of or	<u>ie is required; check all tha</u>	<u>at apply)</u>	Secondary Indicators (minimum of t	<u>wo required)</u>
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ima</li> <li>Sparsely Vegetated Concave Su</li> </ul>	Aquatic F Marl Dep Hydroger Oxidized Presence Recent In Thin Muc agery (B7) Other (Ex	ained Leaves (B9) Fauna (B13) rosits (B15) n Sulfide Odor (C1) Rhizospheres on Living Roots (C of Reduced Iron (C4) on Reduction in Tilled Soils (C6) rk Surface (C7) rplain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imag</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>	ery (C9)
Field Observations:				
Surface Water Present?	Yes 🟒 No	Depth (inches): 1		
Water Table Present?	Yes No _	Depth (inches):	Wetland Hydrology Present?	′es No
Saturation Present?	Yes 🟒 No	Depth (inches): 0		
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring well, aeri	al photos, previous inspections),	, if available:	
Remarks:				

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-08\_PEM-1

% Cover	<u> </u>	Status	Number of Dominant Speci         Are OBL, FACW, or FAC:         Total Number of Dominant         Across All Strata:         Percent of Dominant Specie         Are OBL, FACW, or FAC:         Prevalence Index workshee         Total % Cover of:	Species es That t:	1 1 100	(A) (B) (A/B)
  			<ul> <li>Across All Strata:</li> <li>Percent of Dominant Specie</li> <li>Are OBL, FACW, or FAC:</li> <li>Prevalence Index workshee</li> </ul>	es That		
0			<ul> <li>Percent of Dominant Specie</li> <li>Are OBL, FACW, or FAC:</li> <li>Prevalence Index workshee</li> </ul>		100	(A/B)
0			Are OBL, FACW, or FAC: Prevalence Index workshee		100	(A/B)
0						
0			- <u>Total % Cover of:</u>			
0	= Total Cove			<u>n</u>	Multiply	<u>By:</u>
			- OBL species	0 >	x 1 =	0
		-1	FACW species	75 >	x 2 =	150
			FAC species	5 >	x 3 =	15
	<u> </u>		- FACU species	15 >	x 4 =	60
			- UPL species	0 >	x 5 =	0
			- Column Totals	95	(A)	225 (B
			Prevalence Index	= B/A =	2.4	
			Hydrophytic Vegetation Ind	icators:		
			1- Rapid Test for Hydr	ophytic Ve	getation	
	= Total Cove	or	2 - Dominance Test is	>50%		
	-	-1				
60	Yes	FACW	. –			supportin
			, , , ,		-	
			,		, ,	gy must b
					auc	
			•		nore in (	diamotor
				-		
			-		-	)BH and
						gardless o
			size, and woody plants less	than 3.28 i	ft tall.	
			Woody vines – All woody vin	nes greatei	r than 3.	28 ft in
95	= Total Cove	er	height.			
	-		Hydrophytic Vegetation Pro	esent? Yes	s 🟒 N	lo
			-			
			-			
			-			
0	= Total Cove	er	-			
	0 60 15 5 	0         = Total Cove           60         Yes           15         No           15         No           5         No           95         = Total Cove           0         = Total Cove           0         = Total Cove	0         = Total Cover           60         Yes         FACW           15         No         FACW           15         No         FACU           5         No         FAC           95         = Total Cover	Imperiation of the second	Imput op Fylic Vegetation indicators.0= Total Cover $0$ = Total Cover $0$ = Total Cover $0$ = Total Cover $0$ $2$ - Dominance Test is >50% $4$ - Morphological Adaptations1 (I data in Remarks or on a separate sheet Indicators of hydric soil and wetland I present, unless disturbed or problematic Definitions of Vegetation Strata:Image: Second Strate Stra	0       = Total Cover         0       = Total Cover         0       = Total Cover         2       - Dominance Test is >50%         4       - Morphological Adaptations1 (Provide data in Remarks or on a separate sheet)         15       No         5       No         5       No         60       FAC         95       FAC         95       = Total Cover         0       = Total Cover         0       = Total Cover

SOIL

(inches)       Color (moist)       %       Type!       Loc2       Texture       Remarks         0 - 5       10YR 3/2       100	
5 - 18       10YR 5/2       60       10YR 5/8       40       C       M       Clay <ul> <li>IOYR 5/2</li> <li>IOYR 5/8</li> <li>IOYR 5/8</li> <li>IOYR 5/8</li> <li>C</li> <li>M</li> <li>Clay</li> </ul> IOYR 5/2     60     10YR 5/8     40     C     M     Clay     IOYR 5/8     40     C     M     Clay     IOYA     IOYA	
ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = Pore Lining, M = Matrix.         ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>2</sup> :         Histosol (A1)	
'dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         - Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         - Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         - Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         - Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         - Stratified Layers (A5)       ✓ Depleted Matrix (F3)         - Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         - Thick Dark Surface (A12)       Depleted Dark Surface (F7)         - Sandy Mucky Mineral (S1)       Redox Depressions (F8)	
'dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         - Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         - Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         - Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         - Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         - Stratified Layers (A5)       ✓ Depleted Matrix (F3)         - Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         - Thick Dark Surface (A12)       Depleted Dark Surface (F7)         - Sandy Mucky Mineral (S1)       Redox Depressions (F8)	
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)	
//dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         // Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         _ Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         _ Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         _ Stratified Layers (A5)       ✓ Depleted Matrix (F3)         _ Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         _ Thick Dark Surface (A12)       Depleted Dark Surface (F7)         _ Sandy Mucky Mineral (S1)       Redox Depressions (F8)	
//dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         // Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         _ Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         _ Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         _ Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         _ Stratified Layers (A5)       ✓ Depleted Matrix (F3)         _ Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         _ Thick Dark Surface (A12)       Depleted Dark Surface (F7)         _ Sandy Mucky Mineral (S1)       Redox Depressions (F8)	
'dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         'Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         'Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       ✓ Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)	
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)	
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)	
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)	
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)	
dric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)	
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       ✓ Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)	
Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)         Stratified Layers (A5)       ✓ Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleved Matrix (S4)       Piedmont Floodplain Soils (F19) (MLRA K, L)	
Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)	, R)
Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)	, K)
Stratified Layers (A5) <ul> <li>Depleted Matrix (F3)</li> <li>Depleted Below Dark Surface (A11)</li> <li>Redox Dark Surface (F6)</li> <li>Thick Dark Surface (A12)</li> <li>Depleted Dark Surface (F7)</li> <li>Sandy Mucky Mineral (S1)</li> <li>Redox Depressions (F8)</li> <li>Piedmont Floodplain Soils (F19) (MLRA K, I2)</li> </ul>	
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12) (LRR K, L)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA Surface (S4))	<b>`</b>
Inick Dark Surface (A12)	/
Sandy Gleved Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA	L, R)
Sandy Gleyed Matrix (54)	
Mesic Spodic (TA6) (MLRA 144A, 145, 14 Sandy Redox (S5)	49B)
Etvine ad Materia (F21)	
Very Stiallow Dark Surface (FT2)	
dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
strictive Layer (if observed):	
Type: None Hydric Soil Present? Yes _∠_ No	
Depth (inches): marks:	

Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



Project/Site: Flat Creek	City/County: Canajoharie, Montgomery County	Sampling Date: 2022-Aug-19
Applicant/Owner: SED	State: NY	Sampling Point: W-ABL-08_UPL-1
Investigator(s): Abi Light, Ella de Bruijn	Section, Township, Range:	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none)	None Slope (%): 1 to 10
Subregion (LRR or MLRA): LRR L	Lat: 42.8898023574 Long	-74.5515134701 Datum: WGS84
Soil Map Unit Name: Appleton silt loam, 3 to 8 pe	ercent slopes	NWI classification:
Are climatic/hydrologic conditions on the site typica	I for this time of year? Yes 🟒 No (If n	o, explain in Remarks.)
Are Vegetation,       Soil,       or Hydrology _         Are Vegetation,       Soil,       or Hydrology _		stances" present? Yes 🟒 No ny answers in Remarks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedure	es here or in a separate repo	rt)	
Covertype is UPL.			

### HYDROLOGY

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-08\_UPL-1

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species Tha	t o	(A)
. Acer saccharum	80	Yes	FACU	Are OBL, FACW, or FAC:		(A)
. Fraxinus americana	10	No	FACU	Total Number of Dominant Specie Across All Strata:	s 4	(B)
·				Percent of Dominant Species That	0	(4 (D)
				Are OBL, FACW, or FAC:	0	(A/B)
				Prevalence Index worksheet:		
·				- <u>Total % Cover of:</u>	Multiply	By:
·				OBL species 0	x 1 =	0
	90	= Total Cov	er	FACW species 5	x 2 =	10
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 5	x 3 =	15
Acer saccharum	10	Yes	FACU	FACU species 130	x 4 =	520
				- UPL species 0	x 5 =	0
				- Column Totals 140	(A)	545 (B
				Prevalence Index = B/A =	3.9	
				Hydrophytic Vegetation Indicators	:	
				1- Rapid Test for Hydrophytic		ı
				2 - Dominance Test is > 50%		
	10	= Total Cov	er	$3 - Prevalence Index is \le 3.0^{10}$		
<u>erb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Adaptation		supportin
Fraxinus americana	15	Yes	FACU	- data in Remarks or on a separate		
Rubus allegheniensis	10	Yes	FACU	Problematic Hydrophytic Veg	getation <sup>1</sup> (Ex	kplain)
Acer saccharum	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetla	nd hydrolo	gy must b
. Rumex obtusifolius	5	No	FAC	present, unless disturbed or probl	ematic	
. Pilea pumila	5	No	FACW	Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm)	or more in	diameter a
				breast height (DBH), regardless of	height.	
·				Sapling/shrub – Woody plants less		DBH and
				greater than or equal to 3.28 ft (1		
0				Herb – All herbaceous (non-woody		gardless o
1				size, and woody plants less than 3		
2				Woody vines – All woody vines gre	ater than 3	.28 ft in
	40	= Total Cov	er	height.		
<u>/oody Vine Stratum</u> (Plot size: <u>30 ft</u> )		-		Hydrophytic Vegetation Present?	Yes N	No 🔽
				-		
				-		
	0	= Total Cov	er	-		

SOIL

Color (moist)           0 - 1         10YR 4/2           1 - 10         10YR 5/3			Type <sup>1</sup>		
1 - 10 10YR 5/3				Clay Loa	am
				Clay Loa	am
·					
				·	
ype: C = Concentration, D	= Depletion, RM = F	educed Matr	ix, MS = N	lasked Sand Grains. <sup>2</sup> L	Location: PL = Pore Lining, M = Matrix.
dric Soil Indicators:		alua Del - C			Indicators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol (A1) _ Histic Epipedon (A2)				) (LRR R, MLRA 149B) R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
_ Black Histic (A3)		y Mucky Mine			Coast Prairie Redox (A16) (LRR K, L, R)
_ Hydrogen Sulfide (A4)		y Gleyed Mat			5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
_Stratified Layers (A5)		eted Matrix (F			Dark Surface (S7) <b>(LRR K, L)</b> Polyvalue Below Surface (S8) <b>(LRR K, L)</b>
_ Depleted Below Dark Sur					Thin Dark Surface (S9) (LRR K, L)
_ Thick Dark Surface (A12)	(	eted Dark Sur			Iron-Manganese Masses (F12) (LRR K, L, R)
_ Sandy Mucky Mineral (S1		x Depression:	s (F8)		Piedmont Floodplain Soils (F19) (MLRA 1498
_ Sandy Gleyed Matrix (S4)	)				Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
_ Sandy Redox (S5) _ Stripped Matrix (S6)					Red Parent Material (F21)
_ Dark Surface (S7) <b>(LRR R,</b>					Very Shallow Dark Surface (TF12)
					Other (Explain in Remarks)
ndicators of hydrophytic ve	-	nd hydrology	must be	present, unless disturb	ed or problematic.
estrictive Layer (if observed					
Туре:	Bedrock & r	oots	l	Hydric Soil Present?	Yes No 🟒
Depth (inches):	10				

#### Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



Project/Site: Flat Cree	k	City/C	<b>ounty:</b> Canajoharie,	Montgomery Cou	unty	Sampling Date:	2022-Aug-24
Applicant/Owner: S	ED			State: NY		Sampling Point:	W-ABL-09_PEM-1
Investigator(s): Abi L	ight, Ella de B	ruijn		ection, Township,	, Range:		
Landform (hillslope, te	rrace, etc.):	Channel	Local re	lief (concave, conv	vex, none):	Concave	Slope (%): 1 to 10
Subregion (LRR or MLF	RA): LRR I	-	L	at: 42.887940973	37 Long:	-74.5535498312	Datum: WGS84
Soil Map Unit Name:	Lansing silt l	oam, 8 to 15 percent s	slopes (LaC)			NWI classific	cation:
Are climatic/hydrologic	c conditions or	the site typical for th	is time of year?	Yes No	o 🟒 (lf no,	explain in Remar	ks.)
Are Vegetation, Are Vegetation,		or Hydrology sig or Hydrology na				tances" present? ly answers in Rem	Yes No _ <b>_</b> arks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-ABL-09
Remarks: (Explain alternative procedures h	ere or in a separate repor	t)	
Covertype is PEM. Area is wetland, all three	e wetland parameters are p	present. Ditches/drain tiles observed.	

#### HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of or</u>	<u>e is required; check all th</u>	at apply)	Secondary Indicators (minimum of two required)	
		Stunted or Stressed Plants (D1)		
Field Observations:	Vec Ne (			
Surface Water Present?	Yes No 🖌	Depth (inches):	—	
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present? Yes No	
Saturation Present?	Yes 🟒 No	Depth (inches): 0	_	
(includes capillary fringe)				
Describe Recorded Data (stream g	auge, monitoring well, aer	rial photos, previous inspections),	if available:	
Remarks:				

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-09\_PEM-1

<u> Free Stratum</u> (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	2	(A)
·				Total Number of Dominant Species		
				Across All Strata:	3	(B)
				Percent of Dominant Species That	66.7	(A/B)
				Are OBL, FACW, or FAC:		(-( )
				Prevalence Index worksheet:		
				- <u>Total % Cover of:</u>	<u>Multiply E</u>	<u>By:</u>
·	0	= Total Cov	er	- OBL species 100	x 1 =	100
apling/Shrub Stratum (Plot size: <u>15 ft</u> )		-		FACW species 0	x 2 =	0
. Rhus glabra	10	Yes	UPL	FAC species 15	x 3 =	45
2.			OL	FACU species 0	x 4 =	0
	·	·		UPL species 10	x 5 =	50
		<u> </u>		- Column Totals 125	(A)	195 (B
		<u> </u>		Prevalence Index = B/A =	1.6	
				Hydrophytic Vegetation Indicators:		
		<u> </u>		1- Rapid Test for Hydrophytic	Vegetation	
		= Total Cov		2 - Dominance Test is >50%		
lauk Strature (Distainer 5 ft )	10	- 10tal Cov	er	$_{4}$ 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>		
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> ) . <i>Lythrum salicaria</i>	60	Voc		4 - Morphological Adaptation:	s <sup>1</sup> (Provide s	upportin
· · · · · · · · · · · · · · · · · · ·	60	Yes	OBL	- data in Remarks or on a separate s		
. Typha latifolia	35	Yes	OBL	Problematic Hydrophytic Veg		
B. Eutrochium purpureum	15	No	FAC	<sup>1</sup> Indicators of hydric soil and wetla	, 0	y must b
I. Juncus canadensis	5	No	OBL	present, unless disturbed or proble	ematic	
		<u> </u>		Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm)		iameter a
·		<u> </u>		breast height (DBH), regardless of	-	
				Sapling/shrub – Woody plants less greater than or equal to 3.28 ft (1 r		BH and
		<u> </u>		Herb – All herbaceous (non-woody		ardloss o
0		<u> </u>		size, and woody plants less than 3.		ai uless u
1				Woody vines – All woody vines grea		98 ft in
2				height.		
	115	= Total Cov	er	Hydrophytic Vegetation Present?	Vos / N	
<u>Noody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Tydrophytic vegetation resent:	103 <u>v</u> 10	
				-		
2		<u> </u>		-		
3		·		-		
1		<u> </u>		-		
	0	= Total Cov	er			

SOIL

Depth	Matrix		Redo	x Fea	tures			bsence of indicato	
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Te	xture	Remarks
0 - 8	10YR 3/2	95	2.5YR 3/4	5	<u> </u>	M/PL		/ Loam	
8 - 18	10YR 3/1	95	7.5YR 5/8	5		М	,	Clay Loam	
ype: C = C	Concentration, D =	Deplet	ion, RM = Reduce	d Ma	trix, MS =	Masked Sa	nd Grains. <sup>2</sup> L	ocation: PL = Pore	Lining, M = Matrix.
dric Soil	Indicators:							Indicators for Pr	oblematic Hydric Soils <sup>3</sup> :
_ Histoso			Polyvalue B					2 cm Muck (/	A10) <b>(LRR K, L, MLRA 149B)</b>
	oipedon (A2)		Thin Dark S				49B)		Redox (A16) <b>(LRR K, L, R)</b>
_	istic (A3)		Loamy Muc	-				5 cm Mucky	Peat or Peat (S3) <b>(LRR K, L, R)</b>
	en Sulfide (A4) d Layers (A5)		Loamy Gley Depleted M					Dark Surface	
	d Below Dark Surfa	ace (A1							low Surface (S8) <b>(LRR K, L)</b>
-	ark Surface (A12)		Depleted Da			7)			rface (S9) <b>(LRR K, L)</b>
			Doday Dan	essic	ons (F8)			-	nese Masses (F12) (LRR K, L, R)
_ Sandy N	/lucky Mineral (S1)		Redox Depr		- ( - )				
-	/lucky Mineral (S1) Gleyed Matrix (S4)								bodplain Soils (F19) <b>(MLRA 149B)</b>
Sandy G	-		Redox Depr					Mesic Spodio	(TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy C Sandy R Stripped	Gleyed Matrix (S4) Redox (S5) d Matrix (S6)				- ( - )			Mesic Spodic Red Parent M	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Naterial (F21)
_ Sandy C _ Sandy F _ Stripped	Gleyed Matrix (S4) Redox (S5)	/ILRA 1/						Mesic Spodic Red Parent M	: (TA6) <b>(MLRA 144A, 145, 149B)</b> /aterial (F21) / Dark Surface (TF12)
_ Sandy G _ Sandy R _ Stripped _ Dark Su	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b>		49B)			pe present, u	nless disturbe	Mesic Spodic Red Parent N Very Shallow Other (Expla	: (TA6) <b>(MLRA 144A, 145, 149B)</b> /aterial (F21) / Dark Surface (TF12)
Sandy G Sandy F Stripped Dark Su ndicators	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg	etatior	49B)			pe present, u	nless disturbe	Mesic Spodic Red Parent N Very Shallow Other (Expla	: (TA6) <b>(MLRA 144A, 145, 149B)</b> /aterial (F21) / Dark Surface (TF12)
_ Sandy C _ Sandy R _ Stripped _ Dark Su ndicators	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b>	etatior	49B)					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
_ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive I	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed):	etatior	<b>49B)</b> a and wetland hyd			be present, u		Mesic Spodic Red Parent N Very Shallow Other (Expla	: (TA6) <b>(MLRA 144A, 145, 149B)</b> /aterial (F21) / Dark Surface (TF12)
_ Sandy C _ Sandy R _ Stripped _ Dark Su ndicators estrictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
_ Sandy C _ Sandy R _ Stripped _ Dark Su ndicators estrictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
_ Sandy C _ Sandy R _ Stripped _ Dark Su ndicators estrictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
_ Sandy C _ Sandy R _ Stripped _ Dark Su ndicators estrictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
_ Sandy C _ Sandy R _ Stripped _ Dark Su ndicators estrictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
_ Sandy C _ Sandy R _ Stripped _ Dark Su ndicators estrictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
_ Sandy C _ Sandy R _ Stripped _ Dark Su dicators estrictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
_ Sandy C _ Sandy R _ Stripped _ Dark Su dicators estrictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
_ Sandy C _ Sandy R _ Stripped _ Dark Su dicators strictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
_ Sandy C _ Sandy R _ Stripped _ Dark Su ndicators estrictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
_ Sandy C _ Sandy R _ Stripped _ Dark Su dicators estrictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
_ Sandy C _ Sandy R _ Stripped _ Dark Su ndicators estrictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
Sandy C Sandy F Stripped Dark Su ndicators estrictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
Sandy C Sandy F Stripped Dark Su ndicators estrictive I	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
Sandy C Sandy F Stripped Dark Su ndicators estrictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
_ Sandy C _ Sandy F _ Stripped _ Dark Su ndicators estrictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
_ Sandy C _ Sandy R _ Stripped _ Dark Su ndicators estrictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)
_ Sandy C _ Sandy R _ Stripped _ Dark Su dicators strictive l	Sleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type:	etatior	<b>49B)</b> a and wetland hyd					Mesic Spodic Red Parent N Very Shallow Other (Expla	c (TA6) <b>(MLRA 144A, 145, 149B)</b> Material (F21) Dark Surface (TF12) in in Remarks)

Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



Project/Site: Flat Creek		City/County:Canajoharie, Mo	ontgomery County	,	Sampling Date:	2022-Aug-24
Applicant/Owner: SED			State: NY	S	ampling Point: <u>N</u>	/-ABL-09_UPL-1
Investigator(s): Abi Light,	Ella de Bruijn	Sec	tion, Township, Rar	nge:		
Landform (hillslope, terrace	e, etc.): Flat	Local relief	(concave, convex,	none): 1	None	Slope (%): 1 to 10
Subregion (LRR or MLRA):	LRR L	Lat:	42.8897546127	Long: -	74.5585616319	Datum: WGS84
Soil Map Unit Name: Lar	nsing silt loam, 8 to 15 p	ercent slopes (LaC)			NWI classifica	ation:
Are climatic/hydrologic con	ditions on the site typica	al for this time of year?	Yes 🟒 No 🔄	(If no,	explain in Remarl	ks.)
0	, or Hydrology _ , or Hydrology _	significantly disturbed? naturally problematic?			inces" present? answers in Rema	Yes 🟒 No rks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedure	es here or in a separate repo	rt)	
Covertype is UPL.			

### HYDROLOGY

Wetland Hydrology Indicators:					
Primary Indicators (minimum of on	<u>e is required; check all t</u>	hat apply)	Secondary Indicators (minimum of t	<u>wo required)</u>	
		c Fauna (B13) eposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3) ce of Reduced Iron (C4) Iron Reduction in Tilled Soils (C6) uck Surface (C7)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>		
Field Observations:					
Surface Water Present?	Yes No 🟒	Depth (inches):			
Water Table Present?	Yes No 🟒	Depth (inches):	Wetland Hydrology Present?	Yes No 🟒	
Saturation Present?	Yes No 🟒	Depth (inches):			
(includes capillary fringe)					
Describe Recorded Data (stream ga	auge, monitoring well, a	erial photos, previous inspections), if	available:		
Remarks:					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-ABL-09\_UPL-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant		Dominance Test worksheet:		
		Species?	Status	Number of Dominant Species Tha Are OBL, FACW, or FAC:	t 0	(A)
. <u>Rhus glabra</u>	60	Yes	UPL	Total Number of Dominant Specie	- <u> </u>	
				Across All Strata:	<sup>s</sup> 2	(B)
				Percent of Dominant Species That		
				- Are OBL, FACW, or FAC:	0	(A/B)
				Prevalence Index worksheet:		
				- <u>Total % Cover of:</u>	<u>Multiply</u>	By:
·				- OBL species 0	x 1 =	0
	60	= Total Cov	er	FACW species 0	x 2 =	0
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 0	x 3 =	0
				- FACU species 100	x 4 =	400
). 				- UPL species 60	x 5 =	300
				- Column Totals 160	(A)	700 (B
				Prevalence Index = B/A =		
				Hydrophytic Vegetation Indicators		
				- 1- Rapid Test for Hydrophytic		'n
				2 - Dominance Test is > 50%	vegetation	
	0	= Total Cov	er	$3 - Prevalence Index is \le 3.0^{\circ}$		
l <u>erb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Adaptation		supportin
. Solidago canadensis	80	Yes	FACU	- data in Remarks or on a separate		Supportin
. Parthenocissus quinquefolia	10	No	FACU	Problematic Hydrophytic Veg	-	(plain)
3. Alliaria petiolata	10	No	FACU	- <sup>1</sup> Indicators of hydric soil and wetla		
1				present, unless disturbed or probl	ematic	0,
5				Definitions of Vegetation Strata:		
ö				Tree – Woody plants 3 in. (7.6 cm)	or more in (	diameter a
7				breast height (DBH), regardless of	height.	
3.				Sapling/shrub – Woody plants less	than 3 in. [	OBH and
).				greater than or equal to 3.28 ft (1	m) tall.	
0				Herb – All herbaceous (non-woody		gardless o
1				size, and woody plants less than 3		
2.				Woody vines – All woody vines gre	ater than 3	.28 ft in
	100	= Total Cov	er	height.		
		-		Hydrophytic Vegetation Present?	Yes N	No 🔽
<u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u> )				-		
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )						
Noody Vine Stratum (Plot size: <u>30 ft</u> ) 2.				-		
Moody Vine Stratum (Plot size:30 ft)           .           2.           3.           4.				-		

SOIL

0 - 2	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup> Textu	re Remarks
	10YR 3/1	100		_		Clay Lo	am
2 - 18	10YR 4/4	100				Clay Lo	am
				_			
		- <u> </u>		—			
				_			
				_			
		- <u> </u>		—			
				_			
				—			
e: C = C	Concentration, D =	Depletio	n, RM = Reduced	Mati	ix, MS =	Masked Sand Grains.	Location: PL = Pore Lining, M = Matrix.
ric Soil I	Indicators:						Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			-			8) (LRR R, MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
-	pipedon (A2)		Thin Dark Su			-	Coast Prairie Redox (A16) (LRR K, L, R)
	stic (A3)		Loamy Mucky			(LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gleye				Dark Surface (S7) (LRR K, L)
	d Layers (A5) d Below Dark Surfa		Depleted Mat				Polyvalue Below Surface (S8) (LRR K, L)
	ark Surface (A12)	• •	Depleted Dark		• •		Thin Dark Surface (S9) (LRR K, L)
	lucky Mineral (S1)		Redox Depre				Iron-Manganese Masses (F12) (LRR K, L, R)
-	<b>,</b>			551011	5 (FO)		Piedmont Floodplain Soils (F19) (MLRA 149B
-	bleyed Matrix (S4)						Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	edox (S5)						Red Parent Material (F21)
	d Matrix (S6)						Very Shallow Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, N</b>	1LRA 149	<b>J</b> B)				Other (Explain in Remarks)
			and wetland hydr	ology	/ must be	e present, unless disturk	ed or problematic.
	Layer (if observed):		None			Lludric Coil Drocont?	Vec Ne (
	Type:		None			Hydric Soil Present?	Yes No _
	Depth (inches):						
marks:							

#### Soil Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



Project/Site: Flat Creek Solar Project	City/County: Canajoharie, Montgomery County Sampling Date: 2024-4-9
Applicant/Owner: SunEast	State: NY Sampling Point: W-ABL-10_PUB-1
Investigator(s): Melanie Musarra	
Landform (hillslope, terrace, etc): Depression	Local relief (concave, convex, none): Concave Slope (%): 1 to 3
	Lat: 42.8869389833 Long: -74.55642745 Datum: WGS84
Soil Map Unit Name: Lansing silt loam, 3 to 8 percent slopes	NWI Classification:
Are climatic / hydrologic conditions on the site typical for this time of	
	Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)
	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes       X       No         Hydric Soil Present?       Yes       X       No         Wetland Hydrology Present?       Yes       X       No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID: W-ABL-10
Remarks: (Explain alternative procedures here or in a separate rep Covertype is PUB. Based on the presence of all three parameters, this	
HYDROLOGY	
Drift Deposits (B3) Presence of Redu	aves (B9)       Drainage Patterns (B10)         13)       X         15)       Dry-Season Water Table (C2)         Crayfish Burrows (C8)       Crayfish Burrows (C8)         vodor (C1)       X         beneres along Living Roots (C3)       X         uced Iron (C4)       Saturation Visible on Aerial Imagery (C9)         stunted or Stressed Plants (D1)       Stunted or Stressed Plants (D1)         ce (C7)       Shallow Aquitard (D3)
Field Observations:	
	nches): <u>12</u>
Water Table Present?YesXNoDepth (inSaturation Present?YesXNoDepth (in(includes capillary fringe)	nches): 0 hches): 0 Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:
Remarks: The criterion for wetland hydrology is met.	

#### **VEGETATION** – Use scientific names of plants.

#### Sampling Point: W-ABL-10\_PUB-1

Tree Stratum         (Plot size: _30 ft radius)           1.         Populus deltoides           2.		Dominant Species? Yes	Indicator Status FAC	Dominance Test worksheet:         Number of Dominant Species         That Are OBL, FACW, or FAC:       2         (A)         Total Number of Dominant         Species Across All Strata:       2         (B)         Percent of Dominant Species         That Are OBL, FACW, or FAC:       100%         (A/B)
7.		= Total		Prevalence Index worksheet:Total % Cover of:Multiply by:OBL species $50$ x 1 =FACW species0x 2 =FAC species10x 3 =FACU species0x 4 =UPL species0x 5 =Column Totals: $60$ (A)(A) $80$ (B)
Herb Stratum       (Plot size: _5 ft radius)         1.       Lemna minor         2.       .         3.       .         4.       .         5.       .         6.       .         7.       .         8.       .         9.       .         10.       .         11.       .         12.       .		Yes	OBL	Prevalence Index = B/A = 1.3         Hydrophytic Vegetation Indicators:         1 - Rapid Test for Hydrophytic Vegetation         ¥ 2 - Dominance Test is >50%         ¥ 3 - Prevalence Index is ≤3.0 <sup>1</sup> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)         Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum         (Plot size: _30 ft radius)           1.	 	= Total		Definitions of Vegetation Strata:         Tree — Woody plants 3 in. (7.6 cm) or more in         diameter         at breast height (DBH), regardless of height.         Sapling/shrub — Woody plants 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 vines — All woody vines greater than 3.28 ft in         height.         Hydrophytic         Vegetation         Present?       YesX No
Remarks: (Include photo numbers here or on a separate s The criterion for hydrophytic vegetation is met.	heet.)			

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	cription: (Describe to Matrix	the depth		<b>nent the</b> Feature		tor or co	onfirm the a	absence of indicators.)
Depth (inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	$1 \text{ oc}^2$	Texture	Remarks
0 to 0		90		90	туре	LUC	Texture	Remarks
0100								
				·				
						<u> </u>		
	oncentration, D=Deplet	ion, RM=R	educed Matrix, CS	=Covere	ed or Co	ated Sar		<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil I					faaa (C0			ndicators for Problematic Hydric Soils <sup>3</sup> :
Histosol ( Histic Epi	pedon (A2)		Polyvalue Be MLRA 149B		lace (So		κ, <u>-</u>	2 cm Muck (A10) <b>(LRR K, L, MLRA 149B)</b> Coast Prairie Redox (A16) <b>(LRR K, L, R)</b>
Black His			Thin Dark Su		69) <b>(LRR</b>	R, MLR	A 149B)	5 cm Muck Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Loamy Mucky			.RR K, L	)	Dark Surface (S7) (LRR K, L)
	Layers (A5) Below Dark Surface (A	A11)	Loamy Gleye Depleted Mat				-	Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)
	rk Surface (A12)	(11)	Redox Dark S				-	Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Depleted Dar	rk Surfa	ce (F7)		-	Piedmont Floodplain Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Redox Depre	ssions (	(F8)		-	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Re Stripped	Matrix (S6)						-	Red Parent Material (F21) Very Shallow Dark Surface (TF12)
	face (S7) (LRR R, ML	RA 149B)					-	Other (Explain in Remarks)
<sup>3</sup> Indicators o	f hydrophytic vegetatio	on and wetl	and hydrology mus	st be pre	esent, un	less dist	urbed or pr	oblematic.
Restrictive I	_ayer (if present):							
Type: No								
Depth (inc	ches):		<u> </u>					Hydric Soil Present? Yes X No
Remarks: Soil samp	le unobtainable due to i	nundation. I	Based on the present	ce of bot	th wetlan	d hvdrolo	ogy and hydr	ophytic vegetation, it is expected that hydric soils
	ve developed at this sam		r				0,,	r ji i i i i i i i i i i i i i i i i i i

## SAMPLE PLOT PHOTOS



Plot Photo(s) - E:



Plot Photo(s) - S:



US Army Corps of Engineers 7c40b55f-0d27-495c-a345-4dd3249512a7 W-ABL-10\_PUB-1



Plot Photo(s) - Soil:



	Canajoharie, Montgomery County Sampling Date: 2024-4-9
Applicant/Owner: SunEast	State: <u>NY</u> Sampling Point: <u>W-ABL-10_UPL-1</u>
Investigator(s): Melanie Musarra	Section, Township, Range:
Landform (hillslope, terrace, etc): Hillslope Local relief (co	oncave, convex, none): <u>None</u> Slope (%): <u>1 to 10</u>
Subregion (LRR or MLRA): LRR L Lat: 42.8869	9105333 Long: <u>-74.5563521</u> Datum: <u>WGS84</u>
Soil Map Unit Name: Lansing silt loam, 3 to 8 percent slopes	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 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	
SOMMART OF FINDINGS – Allach sile map showing sampling	point locations, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes No 🗶 Is the	Sampled Area
Hydric Soil Present? Yes No X	n a Wetland? Yes No 🗶
Watland Hydrology Procent? Vac No ¥	optional Wetland Site ID: W-ABL-10
Remarks: (Explain alternative procedures here or in a separate report.) Covertype is UPL. Based on the absence of all three parameters, this area is an upland.	Circumstances are not normal due to agricultural activities.
HYDROLOGY	
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required; check all that apply)         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres along Liv         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled S         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Presence of Reduced Iron Remarks)	Stunted or Stressed Plants (D1)
Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):         Water Table Present?       Yes       No       X       Depth (inches):         Saturation Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)       Ves       No       X       Depth (inches):	Wetland Hydrology Present? Yes No <b>_≭</b>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous in	ispections), if available:
Remarks: The criterion for wetland hydrology is not met.	

#### **VEGETATION** – Use scientific names of plants.

### Sampling Point: <u>W-ABL-10\_UPL-1</u>

Tree Stratum (Plot size: 30 ft radius )		Dominant Species?		Dominance Test worksheet:
1				Number of Dominant Species
2	<u> </u>			That Are OBL, FACW, or FAC: 0 (A)
3	<u> </u>			Total Number of Dominant Species Across All Strata: 3 (B)
4 5.		·		Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 0% (A/B)
7.				
	0	= Total	Cover	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft radius )				Total % Cover of: Multiply by:
1				OBL species 0 x 1 = 0
2				FACW species x 2 =0
3				FAC species $0 \times 3 = 0$
5				FACU species 100 x 4 = 400
6.				UPL species $0 \times 5 = 0$
7.				Column Totals: 100 (A) 400 (B)
	0	= Total	Cover	
Herb Stratum (Plot size: 5 ft radius )				Prevalence Index = $B/A = 4$
1. Poa pratensis	50	Yes	FACU	
2. Trifolium pratense	20	Yes	FACU	Hydrophytic Vegetation Indicators:
3. <u>Trifolium repens</u>	20	Yes	FACU	1 - Rapid Test for Hydrophytic Vegetation
4. <u>Taraxacum officinale</u>	10	No	FACU	2 - Dominance Test is >50%
5 6.				_ 3 - Prevalence Index is $\leq 3.0^1$
7.		·		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
8.				data in Remarks or on a separate sheet)
9.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
10				
11	<u> </u>			<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
12				
Marchy Mine Stratum (Plat aizer 20 from diver	100	= Total	Cover	Definitions of Vegetation Strata:
Woody Vine Stratum (Plot size: <u>30 ft radius</u> ) 1.				Tree – Woody plants 3 in. (7.6 cm) or more in
2.		·		diameter
3.				at breast height (DBH), regardless of height.
4.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
	0	= Total	Cover	
				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
				Hydrophytic Vegetation Present? Yes No X
Remarks: (Include photo numbers here or on a separate sh The criterion for hydrophytic vegetation is not met.	eet.)			1

	cription: (Describe t Matrix	o the dep		Feature			onfirm the a	bsence of indicators.)	
Depth (inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0 to 16	10YR 4/2	100					Silty Clay		
		·							
·		· <u> </u>							
·									
. <u> </u>									
		·							
<sup>1</sup> Type: C=Co	ncentration, D=Deple	tion, RM=	Reduced Matrix, CS	S=Cover	ed or Co	ated Sar	nd Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.	
Hydric Soil I								ndicators for Problematic Hydric Soils <sup>3</sup> :	
Histosol (	A1) pedon (A2)		Polyvalue B		face (S8	) <b>(LRR F</b>	<i>د</i> , <u>–</u>	2 cm Muck (A10) (LRR K, L, MLRA 149E Coast Prairie Redox (A16) (LRR K, L, R)	5)
Black Hist	,		MLRA 149E Thin Dark S		59) <b>(LRR</b>	R, MLR	A 149B)	5 cm Muck Peat or Peat (S3) <b>(LRR K, L, R)</b>	R)
Hydrogen	Sulfide (A4)		Loamy Muck	ky Minera	al (F1) <b>(L</b>			Dark Surface (S7) (LRR K, L)	
	Layers (A5) Below Dark Surface (	(Δ11)	Loamy Gley Depleted Ma				-	Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)	
	k Surface (A12)	((11)	Redox Dark	Surface	(F6)		-	Iron-Manganese Masses (F12) (LRR K, L	., R)
	ucky Mineral (S1)		Depleted Da				-	Piedmont Floodplain Soils (F19) (MLRA	
Sandy Ge	eyed Matrix (S4) edox (S5)		Redox Depr	essions	(F8)		-	Mesic Spodic (TA6) (MLRA 144A, 145, 1 Red Parent Material (F21)	49B)
Stripped N	Matrix (S6)						-	Very Shallow Dark Surface (TF12)	
Dark Surf	ace (S7) <b>(LRR R, ML</b>	RA 149B)					-	Other (Explain in Remarks)	
<sup>3</sup> Indicators of	f hydrophytic vegetati	on and we	etland hydrology mu	st be pre	esent, un	less dist	urbed or pro	blematic.	
Restrictive L	.ayer (if present):								
Type: Not									~
Depth (inc	hes):							Hydric Soil Present? Yes No	<u>×</u>
Remarks:									
The criteri	on for hydric soil is not	t met.							

# SAMPLE PLOT PHOTOS



# Plot Photo(s) - E:



Plot Photo(s) - S:



US Army Corps of Engineers 79f30f85-f522-416b-b19f-62a9623bf006 W-ABL-10\_UPL-1

# <image>

Plot Photo(s) - Soil:



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k Solar Projec	t	City/County:	Sprakers, Mont	gomery County		Sampling Date:	2021-Nov-17
Applicant/Owner: S	unEast				State: NY		Sampling Point: W	-DJB-01_PSS-1
Investigator(s): Davi	d Bonomo, Gi	ovanni Pambian	chi	Sec	tion, Township, Ra	nge: N/	4	
Landform (hillslope, te	rrace, etc.):	Depression		Local relief	(concave, convex	, none):	Concave	Slope (%): 1 to 3
Subregion (LRR or MLF	RA): LRR	L		Lat:	42.847025328	Long:	-74.4643636183	Datum: WGS84
Soil Map Unit Name:	Angola silt lo	am, 3 to 8 perce	ent slopes				NWI classifica	tion: None
Are climatic/hydrologic	c conditions o	n the site typical	for this time	of year?	Yes 🟒 No 🔄	(If no	, explain in Remark	(S.)
Are Vegetation, Are Vegetation,		or Hydrology or Hydrology	-	•			ances" present? y answers in Rema	Yes 🟒 No rks.)

# SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No							
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No					
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-DJB-01					
Remarks: (Explain alternative procedures here or in a separate report)								
Covertype is PSS. Area is wetland, all three wetland parameters are present.								

# HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of the second secon	of one is required; check all Water Aquat Marl I Marl I Oxidiz Preser Recen Thin M I Imagery (B7) Other	that apply) Stained Leaves (B9) cic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living R nce of Reduced Iron (C4) at Iron Reduction in Tilled Soi Muck Surface (C7) (Explain in Remarks)		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strea	Yes No Yes No Yes No m gauge, monitoring well, a	Depth (inches): Depth (inches): Depth (inches): aerial photos, previous inspe	1	_ Wetland Hydrology Present? Yes _∠_ No
Remarks: The criterion for wetland hydro	ology is met. A positive indic	cation of wetland hydrology	was obser	ved (primary and secondary indicators were present

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-01\_PSS-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species Tha	t 3	(A)
				Are OBL, FACW, or FAC:		
				Total Number of Dominant Specie	s 3	(B)
				Across All Strata:		(0)
				Percent of Dominant Species That	100	(A/B)
				Are OBL, FACW, or FAC:		(100)
		<u> </u>		Prevalence Index worksheet:		
· · · · · · · · · · · · · · · · · · ·		<u> </u>		- <u>Total % Cover of:</u>	<u>Multiply</u>	<u>By:</u>
7		Tabal Car		OBL species 10	x 1 =	10
	0	= Total Cov	er	FACW species 25	x 2 =	50
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 60	x 3 =	180
. Cornus racemosa	50	Yes	FAC	FACU species 0	x 4 =	0
2. Viburnum lentago	10	No	FAC	UPL species 0	x 5 =	0
3				- Column Totals 95	(A)	240 (B)
1				Prevalence Index = B/A		240 (D
i						
				Hydrophytic Vegetation Indicators		
		· ·		1- Rapid Test for Hydrophyti	: Vegetation	
	60	= Total Cov	er	∠ 2 - Dominance Test is >50%		
<u>Herb Stratum (Plot size: _5 ft _)</u>				$\checkmark$ 3 - Prevalence Index is ≤ 3.0	1	
1. Phalaris arundinacea	20	Yes	FACW	4 - Morphological Adaptation		supporting
	10	Yes	OBL	data in Remarks or on a separate		
2. Symphyotrichum puniceum	5			Problematic Hydrophytic Ve	getation <sup>1</sup> (E>	(plain)
3. Onoclea sensibilis	5	No	FACW	<sup>1</sup> Indicators of hydric soil and wetla	and hydrolo	gy must be
ł				present, unless disturbed or prob	lematic	
5				Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm)	or more in	diameter a
7				breast height (DBH), regardless of	height.	
3				Sapling/shrub – Woody plants less	s than 3 in. [	OBH and
Э.				greater than or equal to 3.28 ft (1	m) tall.	
10.				Herb – All herbaceous (non-wood	/) plants, re	gardless of
1		· ·		size, and woody plants less than 3	.28 ft tall.	
2.				Woody vines – All woody vines gre	ater than 3	.28 ft in
	35	= Total Cov	er	height.		
Noody Vine Stratum (Plot size: 20 ft )				Hydrophytic Vegetation Present?	Yes 🟒 N	lo
<u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u> )						
		·		-		
2				-		
3				-		
4				-		
	0	= Total Cov	er			

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is  $\leq$  3.00).

SOIL

Depth	Matrix Color (moist) 7.5YR 3/3 7.5YR 3/1	<b>%</b> 100	Redox Color (moist)		tures Type <sup>1</sup>				
0 - 4	7.5YR 3/3		Color (moist)	%	Type <sup>1</sup>				
		100			турс	Loc <sup>2</sup>		ture	Remarks
4 - 16	7.5YR 3/1		-				Silty Cla	ay Loam	
		95	7.5YR 5/8	5	C	M/PL	Clay	Loam	
				-					
				· —					
		·		·					
		·		· —					
		·		· —					
1T		D lti	DM Deduce			Maraliand	Canal Custors 2		nin - NA - NAntuin
	Concentration, D =	Depletio	on, RM = Reduced	d Ma	trix, MS =	= Masked	Sand Grains. 2	Location: PL = Pore Lir	
-	Indicators:							Indicators for Prob	lematic Hydric Soils <sup>3</sup> :
Histoso			Polyvalue Be					2 cm Muck (A10	0) (LRR K, L, MLRA 149B)
	pipedon (A2)		Thin Dark Su					Coast Prairie Re	edox (A16) <b>(LRR K, L, R)</b>
	istic (A3)		Loamy Muck	-			_)	5 cm Mucky Pe	at or Peat (S3) <b>(LRR K, L, R)</b>
	en Sulfide (A4)		Loamy Gleye					Dark Surface (S	57) (LRR K, L)
	ed Layers (A5)	200 (11	Depleted Ma					Polyvalue Below	w Surface (S8) <b>(LRR K, L)</b>
	ed Below Dark Surf ark Surface (A12)	ace (ATT	Depleted Da			7)		Thin Dark Surfa	ace (S9) <b>(LRR K, L)</b>
	Aucky Mineral (S1)		Redox Depre			/)		Iron-Manganes	e Masses (F12) <b>(LRR K, L, R)</b>
	Gleyed Matrix (S4)			23510	115 (FO)			Piedmont Floor	dplain Soils (F19) <b>(MLRA 149B)</b>
								Mesic Spodic (T	Ā6) <b>(MLRA 144A, 145, 149B)</b>
-	Redox (S5)							Red Parent Mat	
	d Matrix (S6)		0.01					Very Shallow D	ark Surface (TF12)
Dark SL	urface (S7) <b>(LRR R, N</b>	MLRA 14	9B)					Other (Explain i	in Remarks)
Indicators	of hydrophytic veg	getation	and wetland hyd	rolog	gy must l	be presen	t, unless disturb	ed or problematic.	
Restrictive	Layer (if observed)	:						·	
	Type:		None			Hvdric S	oil Present?	Yes	5_ <u>√</u> No
	Depth (inches):			•					
Remarks:	Depth (menes).								
A positive i	ndication of hydric	Soli wa	s observed. The c	nteri	on for n	yaric soli	s met.		

Hydrology Photos



Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k Solar Project	:	City/County:	Sprakers, Mont	gomery County		Sampling Date:	2021-Nov-17
Applicant/Owner: S	unEast				State: NY		Sampling Point: W	-DJB-01_UPL-1
Investigator(s): Davi	d Bonomo, Gi	ovanni Pambian	chi	Sect	ion, Township, Ra	nge: N/	4	
Landform (hillslope, te	rrace, etc.):	Depression		Local relief	(concave, convex,	none):	Concave	<b>Slope (%):</b> 1 to 3
Subregion (LRR or MLF	RA): LRR I	_		Lat:	42.846876	Long:	-74.464406	Datum: WGS84
Soil Map Unit Name:	Angola silt lo	am, 3-8 percent	slopes				NWI classificat	tion: None
Are climatic/hydrologic	c conditions or	n the site typical	for this time	of year?	Yes 🟒 No 🔄	(If no	, explain in Remark	s.)
Are Vegetation, Are Vegetation,		or Hydrology or Hydrology	0	tly disturbed? problematic?			ances" present? y answers in Remar	Yes 🟒 No ks.)

# SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No						
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒				
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedur	es here or in a separate repo	prt)					
Covertype is UPL. Area is upland, not all three wetland parameters are present.							

#### HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum o	f one is required; check all that apply)	Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial</li> <li>Sparsely Vegetated Concave</li> </ul>		Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No _∠ Depth (inches): Yes No _∠ Depth (inches): Yes No _∠ Depth (inches): m gauge, monitoring well, aerial photos, previous inspections)	Wetland Hydrology Present? Yes No
Remarks:	logy is not met. Only one secondary indicator observed.	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-01\_UPL-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species Tha	<sup>t</sup> 3	(A)
. Ulmus americana	20	Yes	FACW	Are OBL, FACW, or FAC:		
				Total Number of Dominant Specie	s 4	(B)
B				Across All Strata:		
		·		Percent of Dominant Species That	75	(A/B
				Are OBL, FACW, or FAC:		(100
		<u> </u>		Prevalence Index worksheet:		
		·		Total % Cover of:	<u>Multiply</u>	<u>By:</u>
7				OBL species 0	x 1 =	0
	20	= Total Cov	er	FACW species 25	x 2 =	50
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 65	x 3 =	195
1. <i>Rhamnus cathartica</i>	40	Yes	FAC	FACU species 30	x 4 =	120
2. Carpinus caroliniana	15	Yes	FAC	- UPL species 0	 x 5 =	0
3. Cornus racemosa	10	No	FAC	· · · · · · · · · · · · · · · · · · ·		-
4.		······································		Column Totals 120	(A)	365 (B
5.				Prevalence Index = B/A =	= <u>3</u>	
				Hydrophytic Vegetation Indicators	:	
				1- Rapid Test for Hydrophytic	Vegetatior	า
7				2 - Dominance Test is >50%		
	65	= Total Cov	er	$\checkmark$ 3 - Prevalence Index is $\leq 3.0^{\circ}$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Adaptation		supportir
1. <i>Solidago canadensis</i>	30	Yes	FACU	- data in Remarks or on a separate	-	sapporti
2. <i>Geum macrophyllum</i>	5	No	FACW	Problematic Hydrophytic Ver		(plain)
3.				<sup>1</sup> Indicators of hydric soil and wetla		
4.				present, unless disturbed or probl	2	gy must b
-				Definitions of Vegetation Strata:	ematic	
5 6.	<u></u> .					
7.				Tree – Woody plants 3 in. (7.6 cm)		diameter
				breast height (DBH), regardless of	•	
8				Sapling/shrub – Woody plants less		DBH and
9				greater than or equal to 3.28 ft (1		
10				Herb – All herbaceous (non-woody		gardless c
11				size, and woody plants less than 3		
12.				Woody vines – All woody vines gre	ater than 3	.28 ft in
	35	= Total Cov	er	height.		
Woody Vine Stratum (Plot size: <u>30 ft</u> )		-		Hydrophytic Vegetation Present?	Yes 🟒 🛚	No
· · · ·						
		<u> </u>		•		
2		·				
3						
4				.		
	0	= Total Cov	er			

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is  $\leq$  3.00).

SOIL

0 - 10 10 - 16 10 -	Matrix Color (moist) 10YR 2/1 10YR 5/8 10YR 5/3	%           100           60           40	Redox Color (moist)				m the absence of indica	
0 - 10 10 - 16 10 -	10YR 2/1 10YR 5/8	100 60	Color (moist)					
10 - 16 10	10YR 5/8	60		<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
10 - 16							Silty Clay Loam	
1Type: C = Cond Hydric Soil Indi Histosol (A1 Histosol (A1 Histic Epipe Black Histic Black Histic Depleted Bi Thick Dark 1 Sandy Mucl Sandy Gley Sandy Redo Stripped M Dark Surface Indicators of h Restrictive Layo Typ Depleted Bi	10YR 5/3	40					Clay Loam	
Hydric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark 1 Sandy Mucl Sandy Gley Sandy Redc Stripped M. Dark Surfac Indicators of H Restrictive Laye Typ Deg Remarks:							Clay Loam	
Hydric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark 1 Sandy Mucl Sandy Gley Sandy Redc Stripped M. Dark Surfac Indicators of H Restrictive Laye Typ Deg Remarks:								
Hydric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark 1 Sandy Mucl Sandy Gley Sandy Redc Stripped M. Dark Surfac Indicators of H Restrictive Laye Typ Deg Remarks:								
Hydric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark 1 Sandy Mucl Sandy Gley Sandy Redc Stripped M. Dark Surfac Indicators of H Restrictive Laye Typ Deg Remarks:								
Hydric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark 1 Sandy Mucl Sandy Gley Sandy Redc Stripped M. Dark Surfac Indicators of H Restrictive Laye Typ Deg Remarks:								
Hydric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark 1 Sandy Mucl Sandy Gley Sandy Redc Stripped M. Dark Surfac Indicators of H Restrictive Laye Typ Deg Remarks:			-					
Hydric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark 1 Sandy Mucl Sandy Gley Sandy Redc Stripped M. Dark Surfac Indicators of H Restrictive Laye Typ Deg Remarks:						·		
Hydric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark 1 Sandy Mucl Sandy Gley Sandy Redc Stripped M. Dark Surfac Indicators of H Restrictive Laye Typ Deg Remarks:	-							
Hydric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark 1 Sandy Mucl Sandy Gley Sandy Redc Stripped M Dark Surfac Indicators of H Restrictive Laye Typ Deg Remarks:								
Hydric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark 1 Sandy Mucl Sandy Gley Sandy Redc Stripped M Dark Surfac Indicators of H Restrictive Laye Typ Deg Remarks:						·		-
Hydric Soil Indi Histosol (A1 Histic Epipe Black Histic Hydrogen S Stratified La Depleted B Thick Dark 1 Sandy Mucl Sandy Gley Sandy Redc Stripped M Dark Surfac Indicators of H Restrictive Laye Typ Deg Remarks:				N 4 - 4 - 4			an 21 a satismy DL - Day	
<ul> <li>Histosol (A1</li> <li>Histic Epipe</li> <li>Black Histic</li> <li>Black Histic</li> <li>Stratified La</li> <li>Depleted Bi</li> <li>Thick Dark 1</li> <li>Sandy Mucl</li> <li>Sandy Gley</li> <li>Sandy Redo</li> <li>Stripped Mi</li> <li>Dark Surfact</li> <li>Indicators of H</li> <li>Restrictive Laye</li> <li>Typ</li> <li>Deglete</li> </ul>		Depletio	n, RIVI = Reduced	watr	ix, ivis =	viasked Sand Gra		re Lining, M = Matrix.
<ul> <li>Histic Epipe</li> <li>Black Histic</li> <li>Hydrogen S</li> <li>Stratified La</li> <li>Depleted Bi</li> <li>Thick Dark Sandy Mucl</li> <li>Sandy Gley</li> <li>Sandy Redo</li> <li>Stripped Mi</li> <li>Dark Surface</li> <li>Indicators of H</li> <li>Restrictive Laye</li> <li>Typ</li> <li>De</li> </ul>								Problematic Hydric Soils <sup>3</sup> :
Black Histic     Hydrogen S     Stratified La     Depleted B     Thick Dark 3     Sandy Mucl     Sandy Gley     Sandy Redc     Stripped M     Dark Surfac     Indicators of P     Restrictive Laye     Typ     Deg     Remarks:			•			B) (LRR R, MLRA 1	<b>49В)</b> 2 cm Muck	(A10) <b>(LRR K, L, MLRA 149B)</b>
Hydrogen S     Stratified La     Depleted Bi     Thick Dark 3     Sandy Mucl     Sandy Gley     Sandy Redc     Stripped Mi     Dark Surfac     Indicators of H     Restrictive Laye     Typ     Deg     Remarks:						R, MLRA 149B)	Coast Prair	rie Redox (A16) <b>(LRR K, L, R)</b>
Stratified La Depleted Bu Thick Dark 12 Sandy Mucl Sandy Gley Sandy Redo Stripped Mu Dark Surfact 3Indicators of H Restrictive Laye Dep Dep Remarks:			Loamy Mucky			LKK K, L)	5 cm Muck	y Peat or Peat (S3) <b>(LRR K, L, R)</b>
Depleted B     Thick Dark 1     Sandy Mucl     Sandy Gley     Sandy Redd     Stripped M     Dark Surface     Jindicators of h     Restrictive Laye     Typ     Deg     Remarks:			Loamy Gleye Depleted Ma				Dark Surfa	ce (S7) <b>(LRR K, L)</b>
Thick Dark 1 Sandy Mucl Sandy Gley Sandy Redo Stripped M Dark Surfac 3Indicators of H Restrictive Laye Dej Remarks:	-						Polyvalue E	Below Surface (S8) <b>(LRR K, L)</b>
<ul> <li>Sandy Mucl</li> <li>Sandy Gley</li> <li>Sandy Redo</li> <li>Stripped M</li> <li>Dark Surfact</li> <li>alndicators of h</li> <li>Restrictive Laye</li> <li>Typ</li> <li>Deg</li> <li>Remarks:</li> </ul>	k Surface (A12)		Depleted Dark					Surface (S9) <b>(LRR K, L)</b>
Sandy Gley Sandy Redo Stripped M. Dark Surfac <sup>3</sup> Indicators of h Restrictive Layo Dej Remarks:	icky Mineral (S1)		Redox Depre					anese Masses (F12) <b>(LRR K, L, R)</b>
Sandy Redo Stripped M. Dark Surface <u>3Indicators of h</u> Restrictive Laye Dej Dej Remarks:	•			551011	5 (10)		Piedmont l	Floodplain Soils (F19) <b>(MLRA 149B)</b>
Stripped M. Dark Surface <sup>3</sup> Indicators of h Restrictive Laye Typ Dej Remarks:								dic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Dark Surface <sup>3</sup> Indicators of F Restrictive Laye Typ Deg Remarks:								t Material (F21)
<sup>3</sup> Indicators of h Restrictive Laye Typ Dep Remarks:			OR)				•	ow Dark Surface (TF12)
Restrictive Laye Typ Dep Remarks:	ace (37) (EKK K, K	/ILINA 14:	,0,				Other (Exp	lain in Remarks)
Typ Dej Remarks:	f hydrophytic veg	getation a	and wetland hydr	ology	must be	present, unless	listurbed or problemation	с.
Dep Remarks:	yer (if observed)	:						
Remarks:	ype:		None			Hydric Soil Pres	ent?	Yes No 🟒
Remarks:	epth (inches):			-		-		
	EDULULICHES).							
	•					, june oon 10 noer		

#### Soil Photos



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek	Solar Project	City/County:	Sprakers, Montg	gomery County		Sampling Date: 2	2021-Nov-17	
Applicant/Owner: Sun	nEast			State: NY		Sampling Point: W-	-DJB-02_PEM-1	
Investigator(s): David	Bonomo, Giovann	ni Pambianchi	Sect	ion, Township, Ra	nge: N	A		
Landform (hillslope, terra	ace, etc.): Foo	ot slope	Local relief	(concave, convex,	none):	Concave	Slope (%):	1 to 10
Subregion (LRR or MLRA)	): LRR L		Lat:	42.8473256667	Long:	-74.4679485	Datum: W	GS84
Soil Map Unit Name:	Madalin silty clay l	loam, moderately shallo	w variant			NWI classificat	tion: None	
Are climatic/hydrologic c	onditions on the s	site typical for this time o	of year?	Yes 🟒 No 🔄	(If no	o, explain in Remark	s.)	
0		drology significant drology naturally p	•			tances" present? y answers in Remar	Yes 🟒 No _ ˈks.)	

# SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No							
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No					
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-DJB-02					
Remarks: (Explain alternative procedures here or in a separate report)								
Covertype is PEM. Area is wetland, all three wetland parameters are present.								

# HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of o	one is required; check all t	<u>hat apply)</u>		Secondary Indicators (minimum of two required)
Surface Water (A1)      Water-Stained Leaves (B9)        High Water Table (A2)      Aquatic Fauna (B13)        Saturation (A3)      Marl Deposits (B15)        Water Marks (B1)      Hydrogen Sulfide Odor (C1)        Sediment Deposits (B2)      Oxidized Rhizospheres on Living Roots (C        Drift Deposits (B3)      Presence of Reduced Iron (C4)        Algal Mat or Crust (B4)      Recent Iron Reduction in Tilled Soils (C6)        Iron Deposits (B5)      Thin Muck Surface (C7)        Inundation Visible on Aerial Imagery (B7)      Other (Explain in Remarks)        Sparsely Vegetated Concave Surface (B8)				<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations: Surface Water Present?	Yes No 🟒	Depth (inches)		
Water Table Present?	Yes No	Depth (inches): Depth (inches):	6	 Wetland Hydrology Present? Yes _∠_ No
Saturation Present?	Yes No 🟒	Depth (inches):		
(includes capillary fringe)				
Describe Recorded Data (stream	gauge, monitoring well, a	erial photos, previous inspec	tions), if	available:
	gy is met. A positive indica	ation of wetland hydrology w	vas obser	ved (primary and secondary indicators were present).

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-02\_PEM-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test workshe	et:		
		Species?	Status	Number of Dominant Spo Are OBL, FACW, or FAC:	ecies That	1	(A)
				Total Number of Domina	nt Snecies		
l				Across All Strata:	ni species	1	(B)
3				Percent of Dominant Spe	cies That		
4				Are OBL, FACW, or FAC:		100	(A/B)
5 5				Prevalence Index worksh	eet:		
				Total % Cover of	<u>:</u>	<u>Multiply</u>	<u>By:</u>
7				- OBL species	15	x 1 =	15
	0	= Total Cov	ver	FACW species	85	x 2 =	170
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	5	x 3 =	15
·				- FACU species	0	x 4 =	0
). 				- UPL species	0	x 5 =	0
3				Column Totals	105	(A)	200 (B)
ł				Prevalence Ind	ex = B/A =	1.9	
		·		Hydrophytic Vegetation I	ndicators:		·
				1- Rapid Test for Hy		egetation	
				2 - Dominance Test		0	
	0	= Total Cov	ver	✓ 3 - Prevalence Index	$is \leq 3.0^1$		
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological A	daptations <sup>1</sup>	(Provide	supportin
1. Phalaris arundinacea	85	Yes	FACW	- data in Remarks or on a s	separate sh	eet)	
2. Symphyotrichum puniceum	15	No	OBL	Problematic Hydrop	ohytic Veget	tation¹ (Ex	plain)
3. Solidago rugosa	5	No	FAC	<sup>1</sup> Indicators of hydric soil	and wetlan	d hydrolo	gy must b
4				present, unless disturbed	d or probler	natic	
				Definitions of Vegetation	Strata:		
5				Tree – Woody plants 3 in.			diameter a
·				breast height (DBH), rega		-	
3				Sapling/shrub - Woody p			OBH and
)				greater than or equal to 3			
0				Herb – All herbaceous (n			gardless o
11				size, and woody plants le			20 ft :
2				Woody vines – All woody height.	vines great	er man 3.	28 IL IN
	105	= Total Cov	ver		<b>D</b> 10 1	,	
<u>Noody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation	Present? Y	res 🟒 N	10
I				_			
2				_			
3				_			
4.							
	0	= Total Cov	/er				

Remarks: (Include photo numbers here or on a separate sheet.)

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is  $\leq$  3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

# SOIL

0.10       10YR 2/1       95       SYR 4/6       5       C       M/PL       Silty Clay Loam         10.16       10YR 4/2       60       10YR 4/6       5       C       M       Clay Loam         10.16       10YR 2/1       35       10YR 4/6       5       C       M       Clay Loam         10.16       10YR 2/1       35       10YR 4/6       5       C       M       Clay Loam <th>nenes)</th> <th>Matrix Color (moist)</th> <th>%</th> <th>Color (moist)</th> <th>%</th> <th>tures Type<sup>1</sup></th> <th>Loc<sup>2</sup></th> <th>т</th> <th>exture</th> <th>Remarks</th>	nenes)	Matrix Color (moist)	%	Color (moist)	%	tures Type <sup>1</sup>	Loc <sup>2</sup>	т	exture	Remarks
10 - 16       10YR 4/2       60       10YR 4/6       5       C       M       Clay Loam         10 - 16       10YR 2/1       35       10YR 4/6       Clay Loam	0 - 10					<u> </u>				Kemarka
10 - 16       10YR 2/1       35       10YR 4/6       Clay Loam         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -         -       -       -       -       -       -         -       -       -       -       -       -         -       -       -       -       -       -       -         -       -       -       -       -       -       -       -         - </td <td></td>										
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	10 - 10	10TR 2/1		101K 4/0			<u> </u>	Cla		
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	·									
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :							<u> </u>			
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :							<u> </u>			
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :										
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :										
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	·									
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	·								· · · · · · · · · · · · · · · · · · ·	
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :									· · · · · · · · · · · · · · · · · · ·	
ydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :		oncentration D =	 Denlet	ion RM = Reduce	d Ma	trix MS =	Masked Sand	Grains	<sup>2</sup> location: PL = Pore Linir	ng M = Matrix
_ Histosol (A1)       _ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       _ 2 cm Muck (A10) (LRR K, L, MLRA 149B)         _ Histic Epipedon (A2)       _ Thin Dark Surface (S9) (LRR R, MLRA 149B)       _ Coast Prairie Redox (A16) (LRR K, L, R)         _ Black Histic (A3)       _ Loamy Mucky Mineral (F1) (LRR K, L)       _ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         _ Hydrogen Sulfide (A4)       _ Loamy Gleyed Matrix (F2)       _ Dark Surface (S7) (LRR K, L)         _ Stratified Layers (A5)       < Depleted Matrix (F3)			Depiet	ion, RM – Reduce	u ivia	1117, 1913 -		Grains.		•
				Polyvalue B	elow	Surface (	58) (I RR R MI	RA 149R)		5
Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       Coast Prainte Redox (A16) (LRK K, L, K)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Stratified Layers (A5)       ✓ Depleted Matrix (F3)       Dark Surface (S7) (LRR K, L)         Depleted Below Dark Surface (A11) ✓ Redox Dark Surface (F6)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Manganese Masses (F12) (LRR K, L R)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Wery Shallow Dark Surface (TF12)       Other (Explain in Remarks)         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Yes _/ No         strictive Layer (if observed):       Type:       None       Hydric Soil Present?       Yes _/ No         Depth (inches):       Point indication of hydric soil was observed. Soils potentially disturbed from agricultural activities, but not considered to be a significant										
							-	,		
	Hydroge	n Sulfide (A4)		Loamy Gley	ed M	atrix (F2)				
_ Depleted Below Dark Surface (A11) Redox Dark Surface (F6)       Thin Dark Surface (A12)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Iron-Manganese Masses (F12) (LRR K, L, R)         Sandy Redox (S5)       Mesic Spodic (TA6) (MLRA 1449B)       Mesic Spodic (TA6) (MLRA 144A, 145, 149B)         Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)       Other (Explain in Remarks)         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Explain in Remarks)       Other (Explain in Remarks)         Type:       None       Hydric Soil Present?       Yes No         Depth (inches):       None       Hydric Soil Present?       Yes No         Soils potentially disturbed from agricultural activities, but not considered to be a significant	Stratified	d Layers (A5)		_∕_ Depleted M	atrix	(F3)				
			ace (A1						•	
Sandy Mucky Mineral (S1)Redox Depressions (F8) 							7)			
Mesic Spodic (1A6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type:NoneHydric Soil Present? YesNo Depth (inches): emarks: positive indication of hydric soil was observed. Soils potentially disturbed from agricultural activities, but not considered to be a significant				Redox Depi	ressic	ons (F8)			0	
	-	•							Mesic Spodic (TA	5) (MLRA 144A, 145, 149B)
	-								Red Parent Mater	rial (F21)
									Very Shallow Dar	k Surface (TF12)
estrictive Layer (if observed): Type:NoneHydric Soil Present? YesNo Depth (inches): emarks: positive indication of hydric soil was observed. Soils potentially disturbed from agricultural activities, but not considered to be a significant	_ Dark Sui	rface (S7) <b>(LRR R, N</b>	/ILRA 1	49B)					Other (Explain in	Remarks)
Type:       None       Hydric Soil Present?       Yes _✓ No         Depth (inches):	ndicators o	of hydrophytic veg	etatior	n and wetland hyd	drolo	gy must k	oe present, unl	ess distu	rbed or problematic.	
Depth (inches): emarks: positive indication of hydric soil was observed. Soils potentially disturbed from agricultural activities, but not considered to be a significant	estrictive L	ayer (if observed)	:							
emarks: positive indication of hydric soil was observed. Soils potentially disturbed from agricultural activities, but not considered to be a significant		Type:		None			Hydric Soil Pr	esent?	Yes _	🖌 No
positive indication of hydric soil was observed. Soils potentially disturbed from agricultural activities, but not considered to be a significant	I	Depth (inches):			-					
	emarks:									
	positive in	dication of hydric	soil wa	as observed. Soils	pote	ntially dis	sturbed from a	gricultur	al activities, but not consid	lered to be a significant
	-	-						-		-

#### Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South



Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek Solar Project	City/County: Sprakers, Montgomery County	Sampling Date: 2021-Nov-17
Applicant/Owner: SunEast	State: NY	Sampling Point: W-DJB-02_PFO-2
Investigator(s): David Bonomo, Giovanni Pambia	nchi Section, Township, Ran	ge: NA
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex, r	Slope (%):         1 to 10
Subregion (LRR or MLRA): LRR L	Lat: 42.8472511667	Long: -74.4683385 Datum: WGS84
Soil Map Unit Name: Madalin silty clay loam, mo	derately shallow variant	NWI classification: None
Are climatic/hydrologic conditions on the site typica	I for this time of year? Yes 🖌 No	_ (If no, explain in Remarks.)
		rcumstances" present? Yes 🖌 No lain any answers in Remarks.)

# SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-DJB-02
Remarks: (Explain alternative procedures he	re or in a separate report	)	
Covertype is PFO. Area is wetland, all three v	vetland parameters are p	resent.	

# HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>Water-Stained Leaves (B9)</li> <li>High Water Table (A2)</li> <li>Aquatic Fauna (B13)</li> <li>Saturation (A3)</li> <li>Marl Deposits (B15)</li> <li>Water Marks (B1)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Sediment Deposits (B2)</li> <li>Oxidized Rhizospheres on Living Roots (C3</li> <li>Drift Deposits (B3)</li> <li>Presence of Reduced Iron (C4)</li> <li>Algal Mat or Crust (B4)</li> <li>Recent Iron Reduction in Tilled Soils (C6)</li> <li>Iron Deposits (B5)</li> <li>Thin Muck Surface (C7)</li> <li>Inundation Visible on Aerial Imagery (B7)</li> <li>Sparsely Vegetated Concave Surface (B8)</li> </ul>	<ul> <li> Surface Soil Cracks (B6)</li> <li> Drainage Patterns (B10)</li> <li> Moss Trim Lines (B16)</li> <li> Dry-Season Water Table (C2)</li> <li> Crayfish Burrows (C8)</li> <li> Saturation Visible on Aerial Imagery (C9)</li> <li> Stunted or Stressed Plants (D1)</li> <li> Geomorphic Position (D2)</li> <li> Shallow Aquitard (D3)</li> <li> Microtopographic Relief (D4)</li> <li> FAC-Neutral Test (D5)</li> </ul>
Field Observations: Surface Water Present? Yes No _∠ Depth (inches):	
Water Table Present?     Yes ∠ No     Depth (inclus):     4	— Wetland Hydrology Present? Yes _∠_ No
Saturation Present? Yes No 🖌 Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), Remarks: The criterion for wetland hydrology is met. A positive indication of wetland hydrology was obs	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-02\_PFO-2

ree Stratum (Plot size: <u>30 ft</u> )		Dominant		Dominance Test worksheet:		
		Species?	Status	Number of Dominant Species Tha Are OBL, FACW, or FAC:	<sup>t</sup> 3	(A)
. Pinus strobus	30	Yes	FACU			
. Rhamnus cathartica	30	Yes	FAC	Total Number of Dominant Specie Across All Strata:	4	(B)
				Percent of Dominant Species That	75	(A/B)
i				Are OBL, FACW, or FAC:		
				Prevalence Index worksheet:		<b>D</b>
				Total % Cover of:	<u>Multiply</u>	•
	60	= Total Cov	er	OBL species 0	_ x1=	0
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FACW species 55	x 2 =	110
. Rhamnus cathartica	60	Yes	FAC	FAC species 95	x 3 =	285
	00	103	TAC	FACU species 30	x 4 =	120
		·		UPL species 0	x 5 =	0
				Column Totals 180	(A)	515 (B)
		·		Prevalence Index = B/A =	2.9	
		·		Hydrophytic Vegetation Indicators	:	
				1- Rapid Test for Hydrophytic		
				2 - Dominance Test is >50%	, regetation	
	60	= Total Cov	er	$\checkmark$ 3 - Prevalence Index is $\leq 3.0^{\circ}$		
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> )						cupporting
. Onoclea sensibilis	50	Yes	FACW	<ul> <li>4 - Morphological Adaptation</li> <li>data in Remarks or on a separate</li> </ul>		supporting
2. Cornus amomum	5	No	FACW	Problematic Hydrophytic Veg	-	(nlain)
3. Solidago rugosa	5	No	FAC	<sup>1</sup> Indicators of hydric soil and wetla	· ·	
				present, unless disturbed or prob		gy must be
5.		·		Definitions of Vegetation Strata:	ematic	
				Tree – Woody plants 3 in. (7.6 cm)	or moro in	diamotora
 7				breast height (DBH), regardless of		ulainietei a
				Sapling/shrub – Woody plants less	0	NPL and
3		<u> </u>		greater than or equal to 3.28 ft (1		
		<u> </u>		Herb – All herbaceous (non-wood)		tardlass of
0		<u> </u>		size, and woody plants less than 3		gai uless oi
1				Woody vines – All woody vines gre		28 ft in
2				height.		.201111
	60	= Total Cov	er			
<u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Present?	Yes 🖌 N	10
2.		·				
2				·		
 1.		·		•		
	0	= Total Cov	er			
	0	-				

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is  $\leq$  3.00).

# SOIL

inches)	Matrix				tures				
	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		exture	Remarks
0 - 10	10YR 2/1	95	5YR 4/6	5	C	M/PL	Silty (	Clay Loam	
10 - 16	10YR 4/2	60					Cla	y Loam	
10 - 16	10YR 2/1	35	10YR 4/6	5	C	M	Cla	y Loam	
ype: C = C	Concentration, D =	Deplet	ion, RM = Reduce	ed Ma	trix, MS =	= Masked Sa	and Grains.	<sup>2</sup> Location: PL = Pore	Lining, M = Matrix.
ydric Soil I	Indicators:							Indicators for Pr	oblematic Hydric Soils <sup>3</sup> :
_ Histosol	. ,		Polyvalue B					2 cm Muck (/	A10) <b>(LRR K, L, MLRA 149B)</b>
	pipedon (A2)		Thin Dark S				49B)	Coast Prairie	e Redox (A16) <b>(LRR K, L, R)</b>
_ Black Hi			Loamy Muc	-				5 cm Mucky	Peat or Peat (S3) <b>(LRR K, L, R)</b>
	en Sulfide (A4) d Layers (A5)		Loamy Gley _∠ Depleted M					Dark Surface	
	d Below Dark Surfa	ace (A1	•					,	low Surface (S8) <b>(LRR K, L)</b>
	ark Surface (A12)		Depleted D			7)			ırface (S9) <b>(LRR K, L)</b>
	Aucky Mineral (S1)		Redox Depi						nese Masses (F12) (LRR K, L, R)
Sandy G	Gleyed Matrix (S4)								bodplain Soils (F19) (MLRA 149B)
Sandy R	Redox (S5)								c (TA6) <b>(MLRA 144A, 145, 149B)</b>
Strinner	d Matrix (S6)							Red Parent N	v Dark Surface (TF12)
			49B)					Other (Expla	
	rface (S7) <b>(LRR R, N</b>	ILRA 1							in in iternatio)
_ Dark Su	rface (S7) <b>(LRR R, N</b>			drolo	av must k	a procont	uplace distur	had or problematic	
_ Dark Su	rface (S7) <b>(LRR R, N</b> of hydrophytic veg	etatior		drolo	gy must l	pe present,	unless distu	bed or problematic.	
_ Dark Sundicators	rface (S7) <b>(LRR R, N</b> of hydrophytic veg L <b>ayer (if observed)</b> :	etatior	and wetland hy	drolo	gy must l			·	Vas ( Na
_ Dark Sundicators	rface (S7) <b>(LRR R, N</b> <u>of hydrophytic veg</u> L <b>ayer (if observed)</b> : Type:	etatior		drolo -	gy must l	be present, Hydric Soi		·	Yes No
Dark Su ndicators estrictive l	rface (S7) <b>(LRR R, N</b> of hydrophytic veg L <b>ayer (if observed)</b> :	etatior	and wetland hy	drolo	gy must l			·	Yes _ 🖌 _ No
Dark Su ndicators estrictive I emarks:	rface (S7) <b>(LRR R, N</b> of hydrophytic veg L <b>ayer (if observed)</b> : Type: Depth (inches):	etatior	and wetland hy	-		Hydric Soi	l Present?		
_ Dark Su ndicators estrictive I emarks: positive ir	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches): ndication of hydric	soil wa	None None	-		Hydric Soi	l Present?		Yes _∠_ No onsidered to be a significant
Dark Su ndicators estrictive I emarks: positive ir	rface (S7) <b>(LRR R, N</b> of hydrophytic veg L <b>ayer (if observed)</b> : Type: Depth (inches):	soil wa	None None	-		Hydric Soi	l Present?		
Dark Su ndicators estrictive I emarks: positive ir	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches): ndication of hydric	soil wa	None None	-		Hydric Soi	l Present?		
Dark Su ndicators estrictive I emarks: positive ir	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches): ndication of hydric	soil wa	None None	-		Hydric Soi	l Present?		
Dark Su ndicators estrictive I emarks: positive ir	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches): ndication of hydric	soil wa	None None	-		Hydric Soi	l Present?		
_ Dark Su ndicators estrictive I emarks: positive ir	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches): ndication of hydric	soil wa	None None	-		Hydric Soi	l Present?		
_ Dark Su ndicators estrictive I emarks: positive ir	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches): ndication of hydric	soil wa	None None	-		Hydric Soi	l Present?		
Dark Su ndicators estrictive I emarks: positive ir	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches): ndication of hydric	soil wa	None None	-		Hydric Soi	l Present?		
_ Dark Su ndicators estrictive I emarks: positive ir	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches): ndication of hydric	soil wa	None None	-		Hydric Soi	l Present?		
_ Dark Su ndicators estrictive I emarks: positive ir	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches): ndication of hydric	soil wa	None None	-		Hydric Soi	l Present?		
Dark Su ndicators estrictive I emarks: positive ir	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches): ndication of hydric	soil wa	None None	-		Hydric Soi	l Present?		
Dark Su ndicators estrictive I emarks: positive ir	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches): ndication of hydric	soil wa	None None	-		Hydric Soi	l Present?		
Dark Su ndicators estrictive I emarks: positive ir	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches): ndication of hydric	soil wa	None None	-		Hydric Soi	l Present?		
Dark Su ndicators estrictive I emarks: positive ir	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches): ndication of hydric	soil wa	None None	-		Hydric Soi	l Present?		
_ Dark Su ndicators estrictive I emarks: positive ir	rface (S7) <b>(LRR R, N</b> of hydrophytic veg Layer (if observed): Type: Depth (inches): ndication of hydric	soil wa	None None	-		Hydric Soi	l Present?		

Soil Photos



Photo of Sample Plot North



Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek	solar Project	City/Count	y: Sprakers, Montg	omery County		Sampling Date: 20	021-Nov-17
Applicant/Owner: Su	unEast			State: NY		Sampling Point: W-	DJB-02_UPL-1
Investigator(s): David	d Bonomo, Gi	ovanni Pambianchi	Secti	ion, Township, Rai	nge: N/	A	
Landform (hillslope, ter	rrace, etc.):	Knoll	Local relief	(concave, convex,	none):	Convex	Slope (%): 1 to 3
Subregion (LRR or MLR	A): LRR I	-	Lat:	42.847547	Long:	-74.468264	Datum: WGS84
Soil Map Unit Name:	Madalin silty	clay loam,moderately shal	low variant			NWI classificati	on: None
Are climatic/hydrologic	conditions or	the site typical for this tim	ie of year?	Yes 🟒 No 🔄	(If no	, explain in Remarks	.)
0		or Hydrology significa or Hydrology naturall	antly disturbed? ly problematic?			ances" present? / answers in Remark	Yes 🟒 No s.)

# SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures her	e or in a separate report	)	
Covertype is UPL. Area is upland, not all three	e wetland parameters are	e present.	

#### HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum o	f one is required; check all	<u>that apply)</u>	Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial</li> <li>Sparsely Vegetated Concave</li> </ul>		<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>	
Field Observations: Surface Water Present? Water Table Present?	Yes No 🟒	Depth (inches):	 Wetland Hydrology Present? Yes No
Saturation Present? (includes capillary fringe)	Yes No _	Depth (inches):	
	n gauge, monitoring well, a	ierial photos, previous inspections), if	available:
Remarks: The criterion for wetland hydro	logy is not met. No positive	e indication of wetland hydrology was	observed.

# VEGETATION -- Use scientific names of plants.

# Sampling Point: W-DJB-02\_UPL-1

ree Stratum (Plot size: <u>30 ft</u> )		Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species Th	<sup>lat</sup> 1	(A)
. Quercus alba	50	Yes	FACU	Are OBL, FACW, or FAC:		
·				Total Number of Dominant Spec Across All Strata:	<sup>1es</sup> 4	(B)
·				Percent of Dominant Species Th		
				- Are OBL, FACW, or FAC:	25	(A/B)
				Prevalence Index worksheet:		
·				Total % Cover of:	Multiply	/ By:
·				OBL species 0	x 1 =	0
	50	= Total Cov	er	FACW species 10	x 2 =	20
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 50	x 3 =	150
. Rhamnus cathartica	40	Yes	FAC	FACU species 70	x 4 =	280
. Cornus amomum	10	No	FACW	UPL species 0	x 5 =	0
. Cornus racemosa	10	No	FAC	Column Totals 130	(A)	450 (B)
				Prevalence Index = B//		100 (1)
				Hydrophytic Vegetation Indicato		
						n
·				1- Rapid Test for Hydrophy     2 - Dominance Test is > 509	•	
	60	= Total Cov	er	$3 - Prevalence Index is \le 3$		
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Adaptation		supportin
. Solidago canadensis	10	Yes	FACU	- data in Remarks or on a separat	-	supportin
. Fragaria virginiana	10	Yes	FACU	Problematic Hydrophytic V		xplain)
				<sup>1</sup> Indicators of hydric soil and we	-	
				present, unless disturbed or pro	5	569 11450 5
				Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm		diameter a
				breast height (DBH), regardless	-	
		. <u> </u>		Sapling/shrub - Woody plants le	ss than 3 in.	DBH and
				greater than or equal to 3.28 ft (	1 m) tall.	
0.				Herb – All herbaceous (non-woo	dy) plants, re	egardless o
1				size, and woody plants less than	3.28 ft tall.	
2.				Woody vines – All woody vines g	reater than 3	3.28 ft in
	20	= Total Cov	er	height.		
<u>Voody Vine Stratum (Plot size:30 ft</u> )		-		Hydrophytic Vegetation Present	? Yes	No 🟒
·	,			-		
		·		-		
		·		-		
•	0	= Total Cov	or	-		
	0		ei			

# SOIL

	scription: (Describe	to the d	•			indicato	r or confirm the a	bsence of indicato	rs.)	
Depth	Matrix		Redox							
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture			Remarks
0 - 10	10YR 2/1	100					Silty Clay Loam			
10 - 16	10YR 5/8	60					Clay Loam			
10 - 16	10YR 5/3	40		—			Clay Loam			
				—						
	·									
	·									
	<u></u>			_						
	<u></u>			_						
	<u></u>			_						
	<u> </u>			_						
	<u></u>			_						
<sup>1</sup> Type: C =	Concentration, D =	Depletic	on, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. <sup>2</sup> L	ocation: PL = Pore	Lining, M =	Matrix.
,	l Indicators:							Indicators for Pro	oblematic H	ydric Soils <sup>3</sup> :
Histos			Polyvalue Bel					2 cm Muck (A	10) <b>(LRR K,</b>	L, MLRA 149B)
	Epipedon (A2)		Thin Dark Sur					Coast Prairie	Redox (A16	) (LRR K, L, R)
	Histic (A3) gen Sulfide (A4)		Loamy Mucky Loamy Gleyed			(LRR K, I	_)			: (S3) <b>(LRR K, L, R)</b>
	ied Layers (A5)		Depleted Mat					Dark Surface		=
	ed Below Dark Surfa	ace (A11						Polyvalue Bel		
	Dark Surface (A12)		Depleted Dar			)		Thin Dark Su		
Sandy	Mucky Mineral (S1)		Redox Depres	ssior	is (F8)			-		(F12) (LRR K, L, R)
Sandy	Gleyed Matrix (S4)								-	ls (F19) <b>(MLRA 149B)</b>
Sandy	Redox (S5)							Red Parent M		A 144A, 145, 149B)
Strippe	ed Matrix (S6)							Very Shallow		
Dark S	Surface (S7) <b>(LRR R, N</b>	ILRA 14	9B)					Other (Explai		
<sup>3</sup> Indicators	s of hydrophytic veg	etation	and wetland hydr	ology	/ must b	e presen	ıt, unless disturbe			
	Layer (if observed)		, , , , , , , , , , , , , , , , , , ,	0.	,	ĺ				
	Туре:		None			Hydric	Soil Present?		Yes N	0_⁄_
	Depth (inches):					5				
Remarks:										
	e indication of hydr	ic soils v	vas observed. The	crite	erion for	hydric so	oil is not met.			

Soil Photos



Photo of Sample Plot North



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek Solar Project	City/County: Sprakers, Montgomery County	Sampling Date: 2021-Nov-17		
Applicant/Owner: SunEast	State: NY	Sampling Point: W-DJB-03_PSS-1		
Investigator(s): David Bonomo, Giovanni Pambia	nchi Section, Township, Rang	e: NA		
Landform (hillslope, terrace, etc.): Swale	Local relief (concave, convex, n	Shope (%):         1 to 3		
Subregion (LRR or MLRA): LRR L	Lat: 42.8475216667 L	ong: -74.4690873333 Datum: WGS84		
Soil Map Unit Name: Madalin silty clay loam, mo	derately shallow variant	NWI classification: None		
Are climatic/hydrologic conditions on the site typica	Il for this time of year? Yes 🧹 No	(If no, explain in Remarks.)		
	0	:umstances" present? Yes _✔_ No in any answers in Remarks.)		

# SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No										
Hydric Soil Present?	Yes 🖌 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _								
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-DJB-03								
Remarks: (Explain alternative procedure	es here or in a separate rep	port)									
Covertype is PSS. Area is wetland, all the	Covertype is PSS. Area is wetland, all three wetland parameters are present.										

# HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum o	of one is required; check al	Secondary Indicators (minimum of two required) 		
<ul> <li>✓ Surface Water (A1)</li> <li>✓ High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aeria</li> <li>Sparsely Vegetated Concav</li> </ul>	0,			
Field Observations:				
Surface Water Present?	Yes 🟒 No	Depth (inches):	1	-
Water Table Present?	Yes 🟒 No	Depth (inches):	0	Wetland Hydrology Present? Yes No
Saturation Present?	Yes No 🟒	Depth (inches):		
(includes capillary fringe)				-
Describe Recorded Data (strea	m gauge, monitoring well,	aerial photos, previous insp	ections), if	available:
Remarks:				
The criterion for wetland hydro	ology is met. A positive ind	ication of wetland hydrology	was obser	rved (primary and secondary indicators were present)

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-03\_PSS-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species That	4	(A)
				Are OBL, FACW, or FAC:		(/ ()
				Total Number of Dominant Species	; 4	(B)
3.				Across All Strata:		(8)
				Percent of Dominant Species That	100	(A/B)
				Are OBL, FACW, or FAC:	100	(/ 0 D)
-				Prevalence Index worksheet:		
				- <u>Total % Cover of:</u>	Multiply E	<u>By:</u>
7				OBL species 0	x 1 =	0
	0	= Total Cov	er	FACW species 95	x 2 =	190
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 45	x 3 =	135
. Cornus amomum	40	Yes	FACW	FACU species 0	x 4 =	0
2. <i>Rhamnus cathartica</i>	20	Yes	FAC	UPL species 0	x 5 =	0
3				- Column Totals 140	(A)	325 (B)
4						JZJ (D)
5				Prevalence Index = B/A =		
5.				Hydrophytic Vegetation Indicators:		
7.				1- Rapid Test for Hydrophytic	Vegetation	
	60	= Total Cov	er	∠ 2 - Dominance Test is >50%		
<u>-lerb Stratum</u> (Plot size: <u>5 ft</u> )				$\checkmark$ 3 - Prevalence Index is $\leq 3.0^{1}$		
1. Phalaris arundinacea	50	Yes	FACW	4 - Morphological Adaptation	s <sup>1</sup> (Provide s	supporting
	25	Yes	FAC	- data in Remarks or on a separate s	heet)	
0 0				Problematic Hydrophytic Veg	etation <sup>1</sup> (Exp	olain)
3. Onoclea sensibilis	5	No	FACW	<sup>1</sup> Indicators of hydric soil and wetla	nd hydrolog	y must be
4				present, unless disturbed or proble	ematic	
5				Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm) of	or more in d	iameter a
7				breast height (DBH), regardless of	height.	
3				Sapling/shrub – Woody plants less		BH and
).				greater than or equal to 3.28 ft (1 r	n) tall.	
0.				Herb – All herbaceous (non-woody		ardless of
11				size, and woody plants less than 3.	28 ft tall.	
2.				Woody vines – All woody vines grea	ater than 3.2	28 ft in
	80	= Total Cov	or	height.		
<u>Noody Vine Stratum (Plot size:30 ft)</u>				Hydrophytic Vegetation Present?	Yes 🟒 N	0
-						
l				-		
<u></u>				-		
3				-		
ł				-		
	0	= Total Cov	er			

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is  $\leq$  3.00).

SOIL

Profile De	scription: (Describe	to the d	depth needed to	docur	ment the	indicator	or confirm the a	bsence of indicato	rs.)
Depth	Matrix		Redo	x Fea	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 2	7.5YR 3/3	100					Silty Clay Loam		
2 - 12	7.5YR 3/1	95	7.5YR 5/8	5	C	M/PL	Clay Loam		
12 - 16	10YR 4/2	90	10YR 4/6	10	С	Μ	Clay Loam		
-									
-									
-									
-									
-			-				-		
-	·			—					
_								·	
_	·			—					
	Concontration D -	Doplati	ion PM - Poduco	d Ma	triv MS -	- Maskod	Sand Grains 21	ocation: PL - Poro	Lining, M = Matrix.
	il Indicators:	Depiet	ion, Rivi – Reduce	uivid	u ia, IVIJ -	- maskeu	Sanu Grains, *Li		oblematic Hydric Soils <sup>3</sup> :
Histos			Polyvalue P	اسماه	Surface (	(1 DD 1	R, MLRA 149B)		5
	Epipedon (A2)		Thin Dark S						A10) (LRR K, L, MLRA 149B)
	Histic (A3)		Loamy Muc						Redox (A16) <b>(LRR K, L, R)</b>
	gen Sulfide (A4)		Loamy Gley	-	-		-)		Peat or Peat (S3) <b>(LRR K, L, R)</b>
-	ied Layers (A5)		Depleted M					Dark Surface	
	ed Below Dark Surf	face (A1						,	elow Surface (S8) <b>(LRR K, L)</b>
	Dark Surface (A12)		Depleted Da			7)			irface (S9) <b>(LRR K, L)</b>
Sandy	Mucky Mineral (S1)	)	Redox Depr	essio	ns (F8)			-	nese Masses (F12) <b>(LRR K, L, R)</b>
Sandy	Gleyed Matrix (S4)								podplain Soils (F19) <b>(MLRA 149B)</b>
Sandy	Redox (S5)								c (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	ed Matrix (S6)							Red Parent N	
	Surface (S7) <b>(LRR R,</b> I	MLRA 14	49B)						/ Dark Surface (TF12)
								Other (Expla	in in Remarks)
	s of hydrophytic veg	-	and wetland hyd	Irolog	gy must k	be presen	t, unless disturbe	d or problematic.	
Restrictive	e Layer (if observed)	):							
	Туре:		None			Hydric S	Soil Present?	Ň	Yes No
	Depth (inches):								
Remarks:									
A positive	indication of hydrid	c soil wa	s observed. The o	riteri	on for h	ydric soil	is met.		

Soil Photos



Photo of Sample Plot North



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek Solar Project	City/County: Sprakers, M	Iontgomery County	Sampling Date: 202	1-Nov-17
Applicant/Owner: SunEast		State: NY	Sampling Point: W-DJI	B-03_UPL-1
Investigator(s): David Bonomo, Giova	anni Pambianchi	Section, Township, Range: N	A	
Landform (hillslope, terrace, etc.):	Hillslope Local r	elief (concave, convex, none):	Concave	Slope (%): 1 to 10
Subregion (LRR or MLRA): LRR L		Lat: 42.847428 Long	-74.4694013333	Datum: WGS84
Soil Map Unit Name: Madalin silty cla	ay loam, moderately shallow variant		NWI classification	n: None
Are climatic/hydrologic conditions on th	ne site typical for this time of year?	Yes 🟒 No (If n	o, explain in Remarks.)	
• <u> </u>	Hydrology significantly disturbed Hydrology naturally problematic		tances" present?	Yes No )

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No _
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures h	ere or in a separate report	c)	
Covertype is UPL. Area is upland, not all thr	ee wetland parameters ar	e present.	

## HYDROLOGY

Wetland Hydrology Indicators:				
Primary Indicators (minimum of o	one is required; check all	that apply)	Secondary Indicators (minimum of	<u>two required)</u>
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Ir</li> <li>Sparsely Vegetated Concave S</li> </ul>	— Aqua — Marl I — Hydro — Oxidi — Prese — Recer — Thin I nagery (B7) — Other	r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1) zed Rhizospheres on Living Roots (C3) nce of Reduced Iron (C4) nt Iron Reduction in Tilled Soils (C6) Muck Surface (C7) · (Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Ima</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>	0,1,1,1
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes _✔_ No Yes No _✔ Yes No _✔	Depth (inches): 1 Depth (inches): Depth (inches):	_ Wetland Hydrology Present? 	Yes 🟒 No
(includes capillary fringe) Describe Recorded Data (stream	gauge, monitoring well,	aerial photos, previous inspections), if	available:	
Remarks: The criterion for wetland hydrolo	gy is met. A positive indi	cation of wetland hydrology was obse	rved (at least one primary indicator).	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-03\_UPL-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species Tha	t 0	(A)
		·		Total Number of Dominant Specie	<sup>25</sup> 2	(B)
		·		Percent of Dominant Species That		 (A/B)
				Are OBL, FACW, or FAC:		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				Prevalence Index worksheet:		
		· ·		- <u>Total % Cover of:</u>	<u>Multiply</u>	
		= Total Cov	er	- OBL species 0	x 1 =	0
apling/Shrub Stratum (Plot size: <u>15 ft</u> )		-		FACW species 0	x 2 =	0
				FAC species 0	x 3 =	0
		·		FACU species 80	x 4 =	320
				- UPL species 0	x 5 =	0
				- Column Totals 80	(A)	320 (B
·		·		Prevalence Index = B/A	=4	
				Hydrophytic Vegetation Indicators	5:	
· · · · · · · · · · · · · · · · · · ·		· ·		1- Rapid Test for Hydrophyti	c Vegetatior	ı
·	0	= Total Cov	or	2 - Dominance Test is > 50%		
lerb Stratum (Plot size: <u>5 ft</u> )	0			$\_$ 3 - Prevalence Index is $\leq$ 3.0		
. Trifolium pratense	40	Yes	FACU	4 - Morphological Adaptation		supportin
. Phleum pratense	40	Yes	FACU	- data in Remarks or on a separate		
3.				Problematic Hydrophytic Ve		
  .		·		<ul> <li>Indicators of hydric soil and wetle</li> </ul>	,	gy must b
·				present, unless disturbed or prob	lematic	
		·		Definitions of Vegetation Strata:		
	·			Tree – Woody plants 3 in. (7.6 cm)		diameter a
·				breast height (DBH), regardless of	-	
	·			Sapling/shrub – Woody plants less		DBH and
				greater than or equal to 3.28 ft (1		
0				Herb – All herbaceous (non-wood		gardless o
1				size, and woody plants less than 3		20.6
2				Woody vines – All woody vines gre	eater than 3	.28 ft in
	80	= Total Cov	er	height.		
<u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u> )		-		Hydrophytic Vegetation Present?	Yes N	No 🟒
3.						
ł						
	0	= Total Cov	er	-		

SOIL

Hydric Soil Indicators:       Indicators for         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Mucl         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prai         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucl         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Mang         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont         Sandy Redox (S5)       Red Parer       Very Shall         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat       Remarks:         Remarks:       None       Hydric Soil Present?	ators.)
0 - 4       10YR 2/2       100	Remarks
4 - 16       10YR 3/3       100       Clay Loam         Clay Loam       Clay Loam       Clay Loam         Thype: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Sand Grains. <sup>2</sup> Location: PL = PC         Hydric Soil Indicators       Indicators for       Indicators for         Histic Child Child       Coast Prai       Coast Prai       Coast Prai         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       S cm Muck       Coast Prai         Stratified Layers (A5)       Depleted Matrix (F2)       Dark Surface (F6)       Thin Dark Surface (F6)       Polyvalue         Sandy Mucky Mineral (S1)	Kemana
Image: Stratified Layers (A5)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Much         Image: Stratified Layers (A5)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Much         Image: Stratified Layers (A5)       Depleted Matrix (F3)       Dark Surface (A12)       Depleted Matrix (F3)         Image: Stratified Layers (A5)       Depleted Dark Surface (F6)       Thin Dark Surface (F7)       Inin Dark Surface (F7)         Stratified Layers (A5)       Depleted Dark Surface (F7)       Inin Dark Surface (F7)       Inin Dark Surface (F7)         Stratified Layers (S5)       Redox Depressions (F8)       Piedmont         Stratified Layers (S7)       Incom Matrix (S3)       Other (Exp         Stratified Layers (F7)       Inin Dark Surface (F7)       Inin Dark Surface (F7)         Stratified Layers (A12)       Depleted Dark Surface (F7)       Inin Dark Surface (F7)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont         Sandy Redox (S5)       Red Pare       Very Shall         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Exp         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat         Restrictive Layer (If observed):       None       Hydric Soil Present?         Depth (inches):       None       Hydric Soil Present? <td></td>	
Hydric Soil Indicators:       Indicators for         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Mucl         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prai         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucl         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Mang         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont         Sandy Redox (S5)       Red Parer       Very Shall         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat       Remarks:         Remarks:       None       Hydric Soil Present?	<u> </u>
Hydric Soil Indicators:       Indicators for         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Mucl         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prai         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucl         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Mang         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont         Sandy Redox (S5)       Red Parer       Very Shall         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat       Remarks:         Remarks:       None       Hydric Soil Present?	<u> </u>
Hydric Soil Indicators:       Indicators for         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Mucl         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prai         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucl         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Mang         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont         Sandy Redox (S5)       Redox Depressions (F8)       Very Shall         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat         Restrictive Layer (if observed):       None         Type:       None         Depth (inches):       Hydric Soil Present?         Remarks:       Remarks:	
Hydric Soil Indicators:       Indicators for         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Mucl         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prai         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucl         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Mang         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont         Sandy Redox (S5)       Redox Depressions (F8)       Very Shall         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat         Restrictive Layer (if observed):       None         Type:       None         Depth (inches):       Hydric Soil Present?         Remarks:       Remarks:	
Hydric Soil Indicators:       Indicators for         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Mucl         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prai         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucl         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Mang         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont         Sandy Redox (S5)       Redox Depressions (F8)       Very Shall         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat         Restrictive Layer (if observed):       None         Type:       None         Depth (inches):       Hydric Soil Present?         Remarks:       Remarks:	
Hydric Soil Indicators:       Indicators for         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Mucl         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prai         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucl         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Mang         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont         Sandy Redox (S5)       Redox Depressions (F8)       Very Shall         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat         Restrictive Layer (if observed):       None         Type:       None         Depth (inches):       Hydric Soil Present?         Remarks:       Remarks:	
Hydric Soil Indicators:       Indicators for         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Mucl         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prai         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucl         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Mang         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont         Sandy Redox (S5)       Redox Depressions (F8)       Very Shall         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat         Restrictive Layer (if observed):       None         Type:       None         Depth (inches):       Hydric Soil Present?         Remarks:       Remarks:	
Hydric Soil Indicators:       Indicators for         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Mucl         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prai         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucl         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Mang         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont         Sandy Redox (S5)       Redox Depressions (F8)       Very Shall         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat         Restrictive Layer (if observed):       None         Type:       None         Depth (inches):       Hydric Soil Present?         Remarks:       Remarks:	
Hydric Soil Indicators:       Indicators for         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Mucl         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prai         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucl         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Mang         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont         Sandy Redox (S5)       Redox Depressions (F8)       Very Shall         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat         Restrictive Layer (if observed):       None         Type:       None         Depth (inches):       Hydric Soil Present?         Remarks:       Remarks:	
Hydric Soil Indicators:       Indicators for         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Mucl         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prai         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucl         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Mang         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont         Sandy Redox (S5)       Redox Depressions (F8)       Very Shall         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat         Restrictive Layer (if observed):       None         Type:       None         Depth (inches):       Hydric Soil Present?         Remarks:       Remarks:	
Hydric Soil Indicators:       Indicators for         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)       2 cm Mucl         Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prai         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucl         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Mang         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont         Sandy Redox (S5)       Red Parer       Very Shall         Dark Surface (S7) (LRR R, MLRA 149B)       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat       Other (Exg         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat       Remarks:         Remarks:       None       Hydric Soil Present?	
	ore Lining, M = Matrix.
	Problematic Hydric Soils <sup>3</sup> :
Histic Epipedon (A2)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prail         Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucle         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surface         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Mang         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont         Sandy Gleyed Matrix (S4)       Mesic Spo       Red Parent         Stripped Matrix (S6)       Very Shall       Other (Exp         Jandicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat       Restrictive Layer (if observed):         Type:       None       Hydric Soil Present?         Depth (inches):       Remarks:       Hydric Soil Present?	:k (A10) (LRR K, L, MLRA 149B)
Black Histic (A3)       Loamy Mucky Mineral (F1) (LRR K, L)       5 cm Mucl         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Dark Surfac         Stratified Layers (A5)       Depleted Matrix (F3)       Polyvalue         Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)       Thin Dark         Thick Dark Surface (A12)       Depleted Dark Surface (F7)       Iron-Mang         Sandy Mucky Mineral (S1)       Redox Depressions (F8)       Piedmont         Sandy Gleyed Matrix (S4)       Mesic Spo       Red Parer         Stripped Matrix (S6)       Very Shall       Other (Exp         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat       Polemat         Restrictive Layer (if observed):       Type:       None       Hydric Soil Present?         Depth (inches):       Remarks:       Remarks:       Hydric Soil Present?	irie Redox (A16) <b>(LRR K, L, R)</b>
Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)      Dark Surfac        Stratified Layers (A5)      Depleted Matrix (F3)      Polyvalue        Depleted Below Dark Surface (A11)       Redox Dark Surface (F6)      Thin Dark        Sandy Mucky Mineral (S1)      Depleted Dark Surface (F7)      Iron-Mang        Sandy Gleyed Matrix (S4)      Piedmont	ky Peat or Peat (S3) <b>(LRR K, L, R)</b>
	-
Depleted Below Dark Surface (A11)Redox Dark Surface (F6)     Thick Dark Surface (A12)Depleted Dark Surface (F7)Iron-Mang Sandy Mucky Mineral (S1)Redox Depressions (F8)Piedmont Sandy Gleyed Matrix (S4)Mesic Spo Sandy Redox (S5)Red Parer Stripped Matrix (S6)Very Shall Dark Surface (S7) (LRR R, MLRA 149B)Other (Exg Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat Restrictive Layer (if observed):    NoneHydric Soil Present? Remarks:	Below Surface (S8) (LRR K, L)
	Surface (S9) <b>(LRR K, L)</b>
Sandy Mucky Mineral (ST)     Piedmont     Sandy Gleyed Matrix (S4)     Mesic Spo     Sandy Redox (S5)     Red Parer     Stripped Matrix (S6)     Other (Exp     Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat Restrictive Layer (if observed):     Type:     None     Depth (inches): Remarks:	ganese Masses (F12) <b>(LRR K, L, R)</b>
Sandy Gleyed Matrix (S4)     Mesic Spo     Sandy Redox (S5)     Red Parer     Stripped Matrix (S6)     Other (S7)     (LRR R, MLRA 149B)     Other (Exp     Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat     Restrictive Layer (if observed):     Type:     None     Hydric Soil Present?     Depth (inches):     Remarks:	t Floodplain Soils (F19) <b>(MLRA 149B)</b>
	odic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Stripped Matrix (S6)Very Shall Dark Surface (S7) (LRR R, MLRA 149B)Other (Exp 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat Restrictive Layer (if observed): Type:NoneHydric Soil Present? Depth (inches):	
Dark Surface (S7) (LRR R, MLRA 149B) Other (Exp 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat Restrictive Layer (if observed): Type: None Depth (inches):	low Dark Surface (TF12)
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problemat Restrictive Layer (if observed): Type: None Hydric Soil Present? Depth (inches): Remarks:	plain in Remarks)
Restrictive Layer (if observed):     Hydric Soil Present?       Type:     None       Depth (inches):     Remarks:	•
Type:     None     Hydric Soil Present?       Depth (inches):     Remarks:	
Depth (inches): Remarks:	
Remarks:	Yes No 🟒

Hydrology Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East

#### Photo of Sample Plot South



Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k Solar Project	:	City/County:	Sprakers, Mon	tgomery County		Sampling Date	: 2021-Nov-17
Applicant/Owner: S	unEast				State: NY		Sampling Point:	W-DJB-04/05_UPL-1
Investigator(s): Davi	d Bonomo, Gi	ovanni Pambian	ichi	Se	ction, Township,	Range: N	A	
Landform (hillslope, te	rrace, etc.):	Hillslope		Local relie	f (concave, conv	ex, none):	Convex	Slope (%): 1 to 10
Subregion (LRR or MLF	RA): LRR I	-		Lat	: 42.854712	Long:	-74.5345378333	Datum: WGS84
Soil Map Unit Name:	Rhinebeck s	lty clay loam, 3	to 8 percent s	lopes			NWI classifi	cation: None
Are climatic/hydrologic	c conditions or	n the site typical	for this time	of year?	Yes 🟒 No	(If no	o, explain in Rema	arks.)
Are Vegetation, Are Vegetation,		or Hydrology or Hydrology	0	ly disturbed? problematic?			tances" present? ly answers in Rem	

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No _	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures h	ere or in a separate report	c)	
Covertype is UPL. Area is upland, not all thi	ee wetland parameters ar	e present.	

#### HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum o	of one is required; check all that apply)	Secondary Indicators (minimum of two required)
		Sturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No _ ✓ Depth (inches): Yes No _ ✓ Depth (inches): Yes No _ ✓ Depth (inches):	 Wetland Hydrology Present? Yes № 
Remarks:	m gauge, monitoring well, aerial photos, previous inspections)	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-04/05\_UPL-1

<u>Free Stratum (Plot size:30 ft)</u>	Absolute	Dominant	Indicator	Dominance Test work	sheet:		
<u>ree stratum</u> (1101 3/26. <u></u>	% Cover	Species?	Status	Number of Dominant	•	0	(A)
				Are OBL, FACW, or FAC			
·				Total Number of Dom	inant Species	2	(B)
				Across All Strata:			
				Percent of Dominant S		0	(A/B)
j				Are OBL, FACW, or FAC			<u> </u>
				Prevalence Index worl			_
		· ·		- <u>Total % Cove</u>		Multiply	•
	0	= Total Cov	er	- OBL species	0	x 1 =	0
apling/Shrub Stratum (Plot size: <u>15 ft</u> )		_		FACW species	0	x 2 =	0
				FAC species	0	x 3 =	0
				- FACU species	85	x 4 =	340
		······································		- UPL species	5	x 5 =	25
				- Column Totals	90	(A)	365 (B)
k		·		Prevalence I	ndex = B/A =	4.1	
				Hydrophytic Vegetatio	n Indicators:		
·				1- Rapid Test for		/egetatio	n
·		·		2 - Dominance Te		0	
	0	= Total Cov	er	3 - Prevalence In			
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologica		<sup>1</sup> (Provide	supporting
. Rudbeckia hirta	60	Yes	FACU	- data in Remarks or on			
2. Phleum pratense	20	Yes	FACU	Problematic Hyd			xplain)
3. Daucus carota	5	No	UPL	- <sup>1</sup> Indicators of hydric se	oil and wetlan	d hydrolo	bgy must be
4. <i>Centaurea jacea</i>	5	No	FACU	present, unless distur		-	0)
j.				Definitions of Vegetati	on Strata:		
5.				Tree – Woody plants 3		r more in	diameter a
2.				breast height (DBH), r			
3.		· ·		Sapling/shrub - Wood	-		DBH and
).				greater than or equal			
		•		Herb – All herbaceous			gardless of
0				size, and woody plants	s less than 3.2	8 ft tall.	
1		······································		Woody vines – All woo	dy vines great	ter than 3	8.28 ft in
2	90	= Total Cov	~r	height.			
	90	- 10tal Cov	er	Hydrophytic Vegetation	on Present?	res	No 🖌
<u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u> )				,, ,			
				-			
		·		-			
B				-			
l				_			
	0	= Total Cov	er				
Remarks: (Include photo numbers here or on a se	pharate sheet )						
terres (include prioto numbers here of on dise	-pa. are sneed)						

SOIL

Depth         Matrix         Redox Features           (inches)         Color (moist)         %         Type1         Loc2         Texture         Remarks           0 - 12         10YR 4/4         100	
0 - 12 10YR 4/4 100 Silty Clay Loam	
12 - 16       10YR 5/3       90       10YR 5/8       10       C       M       Clay Loam	
<sup>1</sup> Type: C = Concentration, D = Depletion, RM = Reduced 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) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) 2 cm Muck (A10) (LRR K, L, MLRA 14	ЭВ)
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L,	R)
Black Histic (A3)Loamy Mucky Mineral (F1) (LRR K, L)5 cm Mucky Peat or Peat (S3) (LRR K	, L, R)
Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)Dark Surface (S7) (LRR K, L)	
Stratified Layers (A5)Depleted Matrix (F3)Polyvalue Below Surface (S8) (LRR K	, L)
Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)	
Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Manganese Masses (F12) (LRR Iron-Manganese Masses (F12) (Iron-Manganese Ma	K, L, R)
Piedmont Floodplain Soils (F19) (ML	RA 149B)
Sandy Gleyed Matrix (S4)Mesic Spodic (TA6) (MLRA 144A, 145	, 149B)
Sandy Redox (S5)Red Parent Material (F21)	
Stripped Matrix (S6) Very Shallow Dark Surface (TF12)	
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks)	
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
Restrictive Layer (if observed):	
Type: None Hydric Soil Present? Yes No 🗸	
Depth (inches):	
No positive indication of hydric soils was observed. The criterion for hydric soil is not met.	

Soil Photos



Photo of Sample Plot North

Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek Solar Project	City/County: Canajoharie, Montgomery County	Sampling Date: 2021-Nov-17
Applicant/Owner: SunEast	State: NY	Sampling Point: W-DJB-04_PEM-1
Investigator(s): David Bonomo, Giovanni Pambiar	chi Section, Township, Range:	NA
Landform (hillslope, terrace, etc.): Foot slope	Local relief (concave, convex, nor	e): Concave Slope (%): 1 to 10
Subregion (LRR or MLRA): LRR L	Lat: 42.8544108382 Lo	ng: -74.5336710634 Datum: WGS84
Soil Map Unit Name: Rhinebeck silty clay loam, 3	o 8 percent slopes	NWI classification: None
Are climatic/hydrologic conditions on the site typica	for this time of year? Yes 🖌 No (I	f no, explain in Remarks.)
		mstances" present? Yes 🟒 No any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-DJB-04
Remarks: (Explain alternative procedures he	re or in a separate report	)	
Covertype is PEM. Area is wetland, all three	wetland parameters are p	resent.	

## HYDROLOGY

	_ Dry-Season Water Table (C2) _ Crayfish Burrows (C8) ⊻ Saturation Visible on Aerial Imagery (C9)		
	_ Drainage Patterns (B10) _ Moss Trim Lines (B16) _ Dry-Season Water Table (C2) _ Crayfish Burrows (C8) ∠ Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5)Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7)Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)	<ul> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Cravitsh Burrows (C8)</li> </ul>		
Field Observations:			
Surface Water Present? Yes No _∠ Depth (inches):			
Water Table Present? Yes 🖌 No Depth (inches): 10W	Vetland Hydrology Present? Yes No		
Saturation Present? Yes No 🖌 Depth (inches):			
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if ava Remarks: The criterion for wetland hydrology is met. A positive indication of wetland hydrology was observed			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-04\_PEM-1

Tree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test works		2	(A)
l				Are OBL, FACW, or FAC			
2.				Total Number of Domin	hant Species	2	(B)
3.				Across All Strata:			
4.				<ul> <li>Percent of Dominant S</li> <li>Are OBL, FACW, or FAC</li> </ul>		100	(A/B)
5		. <u> </u>		Prevalence Index work	sheet:		
6		·		- <u>Total % Cover</u>	<u>of:</u>	Multiply	By:
7				- OBL species	20	x 1 =	20
	0	= Total Cov	er	FACW species	80	x 2 =	160
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	0	x 3 =	0
l		·		- FACU species	0	x 4 =	0
2		·		- UPL species	0	x 5 =	0
3		·		- Column Totals	100	(A)	180 (B)
4		·		Prevalence Ir	ndex = B/A =	1.8	
5				Hydrophytic Vegetation	Indicators:		
5				1- Rapid Test for H		egetation	
7				2 - Dominance Te		0	
	0	= Total Cov	er	✓ 3 - Prevalence Ind			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological		(Provide :	supporting
1. <i>Poa palustris</i>	60	Yes	FACW	- data in Remarks or on			
2. <i>Phalaris arundinacea</i>	20	Yes	FACW	Problematic Hydr	ophytic Vege	tation <sup>1</sup> (Ex	plain)
3. Symphyotrichum puniceum	15	No	OBL	<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolog	gy must be
4. <i>Scirpus cyperinus</i>	5	No	OBL	present, unless disturb	ed or probler	matic	
				Definitions of Vegetation	on Strata:		
5				Tree – Woody plants 3	in. (7.6 cm) or	more in c	liameter a
7				breast height (DBH), re	gardless of h	eight.	
8				Sapling/shrub - Woody			BH and
9				greater than or equal t			
10				Herb – All herbaceous			ardless of
11				size, and woody plants			
12.				Woody vines – All wood	dy vines great	er than 3.	28 ft in
	100	= Total Cov	er	height.			
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetatio	n Present?	⁄es 🟒 N	0
1							
2.				-			
3.				-			
4.				-			
	0	= Total Cov		-			

Remarks: (Include photo numbers here or on a separate sheet.)

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is  $\leq$  3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

SOIL

	cription: (Describe	to the				indicato	r or confirm the	absence of indicato	ors.)
Depth	Matrix		Redox	Fea	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Tex	dure	Remarks
0 - 4	10YR 3/1	95	7.5YR 4/6	5	С	M/PL	Silty Cl	ay Loam	
4 - 16	10YR 5/1	95	7.5YR 5/8	5	С	М	Clay	Loam	
·									
·									
<u> </u>				—					
				—					
				—				<u> </u>	
				_					
<sup>1</sup> Type: C = 0	Concentration, D =	Deplet	ion, RM = Reduce	d Ma	itrix, MS =	= Masked	Sand Grains. <sup>2</sup>	Location: PL = Pore	Lining, M = Matrix.
Hydric Soil	Indicators:							Indicators for Pr	oblematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Polyvalue Be	elow	Surface (	58) <b>(LRR</b>	R, MLRA 149B)	2 cm Muck (	A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		Thin Dark Si	urfac	e (S9) <b>(LR</b>	R R, MLR	A 149B)		e Redox (A16) <b>(LRR K, L, R)</b>
Black H	istic (A3)		Loamy Mucl	ky Mi	ineral (F1	) <b>(LRR K,</b> I	L)		Peat or Peat (S3) <b>(LRR K, L, R)</b>
	en Sulfide (A4)		Loamy Gley					Dark Surface	
	d Layers (A5)		_✓ Depleted M						elow Surface (S8) <b>(LRR K, L)</b>
	d Below Dark Surfa	ace (A1						•	urface (S9) (LRR K, L)
	ark Surface (A12)		Depleted Da			7)			nese Masses (F12) <b>(LRR K, L, R)</b>
	Aucky Mineral (S1)		Redox Depr	essio	ons (F8)			0	oodplain Soils (F19) <b>(MLRA 149B)</b>
-	Gleyed Matrix (S4)								c (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	Redox (S5)							Red Parent M	
Strippe	d Matrix (S6)								/ Dark Surface (TF12)
Dark Su	urface (S7) <b>(LRR R, N</b>	/LRA 1	49B)					Other (Expla	
<sup>3</sup> Indicators	of hydrophytic yeg	etation	h and wetland hvo	rolo	gv must k	oe preser	nt. unless disturb	bed or problematic.	
-	Layer (if observed):				8,		.,		
	Type:		None			Hydric	Soil Present?		Yes 🟒 No
	Depth (inches):		None			i iyune .	Join Presente.		
Remarks:	Depth (inches).								
A positive i	ndication of hydric	soil wa	as observed. The o	riter	ion for h	ydric soil	is met.		

Soil Photos



Photo of Sample Plot North

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

#### Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek Solar Project	City/County: Canajoharie, Montgomery County	Sampling Date: 2021-Nov-17
Applicant/Owner: SunEast	State: NY	Sampling Point: W-DJB-05_PEM-1
Investigator(s): David Bonomo, Giovanni Pambiar	nchi Section, Township, Range	e: NA
Landform (hillslope, terrace, etc.): Foot slope	Local relief (concave, convex, no	one):         Concave         Slope (%):         1 to 10
Subregion (LRR or MLRA): LRR L	Lat: 42.8551237522 L	ong: -74.5354245892 Datum: WGS84
Soil Map Unit Name: Rhinebeck silty clay loam, 3	to 8 percent slopes	NWI classification: None
Are climatic/hydrologic conditions on the site typica	I for this time of year? Yes 🖌 No	(lf no, explain in Remarks.)
		umstances" present? Yes 🖌 No in any answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-DJB-05
Remarks: (Explain alternative procedures he	re or in a separate report	)	
Covertype is PEM. Area is wetland, all three	wetland parameters are p	vresent.	

## HYDROLOGY

Wetland Hydrology Indicators	:			
Primary Indicators (minimum ✓ Surface Water (A1) ✓ High Water Table (A2) Saturation (A3) Water Marks (B1)	of one is required; check all Water Aquat Marl [	<u>that apply)</u> r-Stained Leaves (B9) tic Fauna (B13) Deposits (B15) ogen Sulfide Odor (C1)		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
<ul> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aeria</li> <li>Sparsely Vegetated Concar</li> </ul>	Oxidiz Prese Recen Thin N al Imagery (B7) Other	zed Rhizospheres on Living nce of Reduced Iron (C4) nt Iron Reduction in Tilled S Muck Surface (C7) · (Explain in Remarks)	,	<ul> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations:				
Surface Water Present?	Yes 🟒 No	Depth (inches):	1	_
Water Table Present?	Yes 🟒 No	Depth (inches):	6	Wetland Hydrology Present? Yes No
Saturation Present?	Yes No 🟒	Depth (inches):		
(includes capillary fringe)				-
Describe Recorded Data (stre	am gauge, monitoring well, a	aerial photos, previous insp	pections), if	available:
Remarks:				
The criterion for wetland hydr	ology is met. A positive indic	cation of wetland hydrolog	y was obser	ved (primary and secondary indicators were present)

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-05\_PEM-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test works	sheet:		
	% Cover	Species?	Status	Number of Dominant	•	2	(A)
				Are OBL, FACW, or FAC			
				Total Number of Domi	nant Species	2	(B)
3.				Across All Strata:			
		·		Percent of Dominant S		100	(A/B)
-				Are OBL, FACW, or FAC			(,,,,,,)
				Prevalence Index work	sheet:		
7				Total % Cover	<u>of:</u>	<u>Multiply I</u>	By:
·	0	Tabal Car		OBL species	15	x 1 =	15
	0	= Total Cov	er	FACW species	60	x 2 =	120
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	20	x 3 =	60
l				FACU species	0	x 4 =	0
<u> </u>				UPL species	0	x 5 =	0
3				Column Totals	95	(A)	195 (B)
4				-	ndex = B/A =	2.1	155 (6)
5							
				Hydrophytic Vegetatio			
,				1- Rapid Test for		egetation	
	0	= Total Cov	er	2 - Dominance Te			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )		-		3 - Prevalence Inc			
1. Phalaris arundinacea	60	Yes	FACW	4 - Morphologica		-	supporting
2. Juncus tenuis	20	Yes	FAC	data in Remarks or on	•		
3. Juncus effusus	10	No	OBL	Problematic Hyd			
A. Scirpus atrovirens	5	No	OBL	<sup>1</sup> Indicators of hydric so		, ,	gy must b
5.			ODL	present, unless disturb		natic	
				Definitions of Vegetati			
5				Tree – Woody plants 3			liameter a
7				breast height (DBH), re	•	-	
3				Sapling/shrub – Wood			BH and
)				greater than or equal t			
0				Herb – All herbaceous			ardless o
1				size, and woody plants			20.6
12				Woody vines – All woo	dy vines great	er than 3.	28 TT IN
	95	= Total Cov	er	height.			
<u>Noody Vine Stratum</u> (Plot size: <u>30 ft</u> )		_		Hydrophytic Vegetatio	on Present?	/es 🟒 N	0
1							
2.		······································					
				•			
				•			
4	0	= Total Cov	or	•			
	0		21				

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is  $\leq$  3.00).

SOIL

Profile Des	cription: (Describe	to the	-			indicato	r or confirm the a	absence of indicato	ors.)
Depth	Matrix		Redox	< Fea	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Tex	ture	Remarks
0 - 4	10YR 4/2	95	7.5YR 4/6	5	С	M/PL	Silty Cla	ay Loam	
4 - 16	10YR 5/1	95	7.5YR 5/8	5	С	М	Clay	Loam	
				_					
				-					
·									
				· —	<u> </u>				
<u> </u>									
						<u></u> ,			
-	Concentration, D =	Deplet	ion, RM = Reduce	d Ma	itrix, MS =	= Masked	Sand Grains. <sup>2</sup>		e Lining, M = Matrix.
Hydric Soil								Indicators for P	roblematic Hydric Soils <sup>3</sup> :
Histoso							R, MLRA 149B)	2 cm Muck (	A10) <b>(LRR K, L, MLRA 149B)</b>
	pipedon (A2)		Thin Dark Su			-	-	Coast Prairie	e Redox (A16) <b>(LRR K, L, R)</b>
	istic (A3)		Loamy Mucl	-			_)	5 cm Mucky	Peat or Peat (S3) <b>(LRR K, L, R)</b>
	en Sulfide (A4) d Layers (A5)		Loamy Gley Depleted M					Dark Surface	e (S7) <b>(LRR K, L)</b>
	d Below Dark Surfa	ace (A1						•	elow Surface (S8) <b>(LRR K, L)</b>
	ark Surface (A12)		Depleted Da			7)			urface (S9) <b>(LRR K, L)</b>
	Aucky Mineral (S1)		Redox Depr			,		0	nese Masses (F12) <b>(LRR K, L, R)</b>
	Gleyed Matrix (S4)								oodplain Soils (F19) <b>(MLRA 149B)</b>
-	Redox (S5)								c (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	d Matrix (S6)							Red Parent l	
	urface (S7) <b>(LRR R, N</b>	<i>I</i> I D  1	/0B)						v Dark Surface (TF12)
Dark Su								Other (Expla	ain in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	getation	n and wetland hyd	Irolo	gy must l	be preser	nt, unless disturb	ed or problematic.	
Restrictive	Layer (if observed)								
	Туре:		None			Hydric S	Soil Present?		Yes 🟒 No
	Depth (inches):								
Remarks:									
A positive i	ndication of hydric	soil wa	as observed. The o	riter	ion for h	ydric soil	is met.		

Hydrology Photos



Soil Photos



Photo of Sample Plot North

Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

#### Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k Solar Projec	t City/Coun	<b>ty:</b> Canajoharie, Mo	ntgomery County	/	Sampling Date: 2	021-Nov-18
Applicant/Owner: S	unEast			State: NY		Sampling Point: W-I	DJB-06_PEM-1
Investigator(s): Davi	d Bonomo, Gi	ovanni Pambianchi	Sect	ion, Township, Ra	nge: NA	N	
Landform (hillslope, te	rrace, etc.):	Swale	Local relief	(concave, convex,	none):	Concave	Slope (%): 1 to 10
Subregion (LRR or MLF	RA): LRR	L	Lat:	42.8724123333	Long:	-74.5359303333	Datum: WGS84
Soil Map Unit Name:	Madalin silty	/ clay loam, 1 to 3 percent s	slopes			NWI classificati	on: None
Are climatic/hydrologic	c conditions o	n the site typical for this tin	ne of year?	Yes 🟒 No 🔄	(lf no	, explain in Remarks	.)
Are Vegetation, Are Vegetation,		or Hydrology signific or Hydrology natural	antly disturbed? lly problematic?			ances" present? / answers in Remark	Yes 🟒 No :s.)

#### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🧹 No
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	W-DJB-06
Remarks: (Explain alternative procedures h	ere or in a separate report	)	
Covertype is PEM. Area is wetland, all three	wetland parameters are p	present.	

#### HYDROLOGY

Wetland Hydrology Indicators:					
Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	<mark>e is required; check all</mark> Water Aquat Marl I Hydro		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)		
Sediment Deposits (B2)     Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aerial Imag     Sparsely Vegetated Concave Sur	Presei Recen Thin N gery (B7) Other	red Rhizospheres on Living nce of Reduced Iron (C4) It Iron Reduction in Tilled S Auck Surface (C7) (Explain in Remarks)		<ul> <li> Saturation Visible on Aerial Imagery (C9)</li> <li> Stunted or Stressed Plants (D1)</li> <li> Geomorphic Position (D2)</li> <li> Shallow Aquitard (D3)</li> <li> Microtopographic Relief (D4)</li> <li> FAC-Neutral Test (D5)</li> </ul>	
Field Observations:					
Surface Water Present?	Yes 🟒 No	Depth (inches):	2	-	
Water Table Present?	Yes 🟒 No	Depth (inches):	0	Wetland Hydrology Present? Yes No	
Saturation Present?	Yes No 🟒	Depth (inches):			
(includes capillary fringe)					
Describe Recorded Data (stream ga	uge, monitoring well, a	aerial photos, previous ins	pections), if	available:	
Remarks: The criterion for wetland hydrology					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-06\_PEM-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test work	sheet:		
	% Cover	Species?	Status	Number of Dominant Are OBL, FACW, or FAC		1	(A)
				Total Number of Dom			
		·		Across All Strata:	indire opecies	1	(B)
3	· ·	<u> </u>		Percent of Dominant	Species That	100	
4 5.		·		Are OBL, FACW, or FAC		100	(A/B)
				Prevalence Index worl	ksheet:		
•		·		- <u>Total % Cove</u>	<u>r of:</u>	<u>Multiply</u>	By:
7				- OBL species	5	x 1 =	5
	0	= Total Cov	er	FACW species	90	x 2 =	180
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	0	x 3 =	0
				- FACU species	0	x 4 =	0
<u> </u>				- UPL species	0	x 5 =	0
3				- Column Totals	95	(A)	185 (B
				- Prevalence I	Index = B/A =	1.9	
5				Hydrophytic Vegetatio	n Indicators:		
				- 1- Rapid Test for		logotation	
·				- $2$ - Dominance Te		egetation	
	0	= Total Cov	er	3 - Prevalence In			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologica		(Provide	supportin
1. <i>Phalaris arundinacea</i>	90	Yes	FACW	- data in Remarks or on		-	supportin
2. Juncus effusus	5	No	OBL	Problematic Hyd			(plain)
3.				- <sup>1</sup> Indicators of hydric s			
4.				present, unless distur			6)
-				Definitions of Vegetat			
5.				Tree – Woody plants 3		more in	diameter a
7				breast height (DBH), r			
3				Sapling/shrub - Wood	•	•	OBH and
		·		greater than or equal			
10		· ·		Herb – All herbaceous	(non-woody)	plants, reg	gardless o
11				size, and woody plant	s less than 3.2	8 ft tall.	-
		·		Woody vines – All woo	ody vines great	er than 3	.28 ft in
12	95	= Total Cov	or	height.			
Noody Vine Stratum (Plot size: 20 ft )		- 10101 CUV		Hydrophytic Vegetati	on Present?	/es N	lo
<u>Noody Vine Stratum</u> (Plot size: <u>30 ft</u> )							
l		·		-			
2		<u> </u>		-			
3				-			
4				-			
	0	= Total Cov	er				

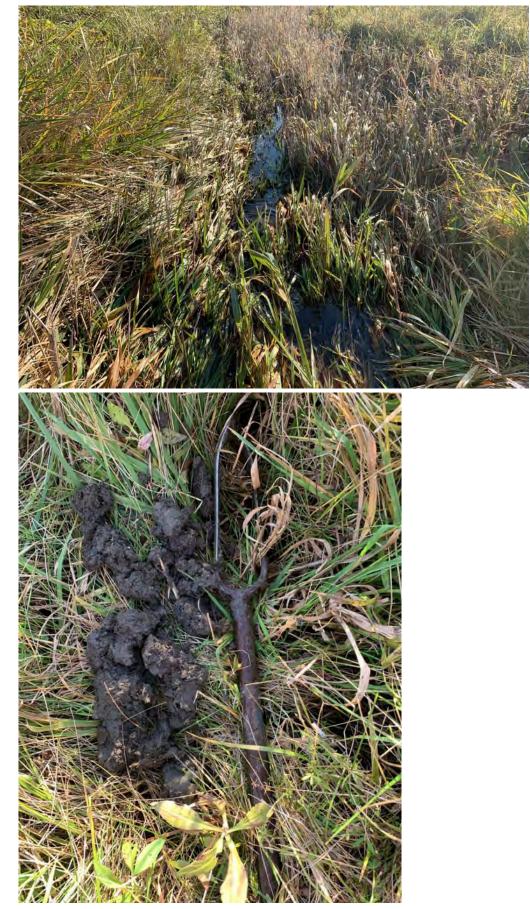
A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is ≤ 3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

## SOIL

## Sampling Point: W-DJB-06\_PEM-1

	•	to the	•			indicator	or confirm the a	absence of indicate	ors.)
Depth	Matrix		-		tures		_		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 14	10YR 2/1	95	7.5YR 4/6	5	C	M/PL	Silty Cla	ay Loam	
								<u> </u>	
<sup>1</sup> Type: $C = C$	oncentration, D =	 Deplet	ion. RM = Reduce	d Ma	atrix. MS =	- Masked	Sand Grains. 2	location: PL = Pore	e Lining, M = Matrix.
Hydric Soil I		_ epict		5.000		mashed			Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue B	elow	Surface (	58) <b>(I RR </b>			,
	oipedon (A2)		Thin Dark S						(A10) (LRR K, L, MLRA 149B)
Black Hi			Loamy Muc						e Redox (A16) (LRR K, L, R)
	en Sulfide (A4)		Loamy Gley	-			<i>.</i>	,	/ Peat or Peat (S3) <b>(LRR K, L, R)</b>
	d Layers (A5)		Depleted M						e (S7) (LRR K, L)
	d Below Dark Surfa	ace (A1	1) <u>✓</u> Redox Dark	Surf	ace (F6)			-	elow Surface (S8) (LRR K, L)
Thick Da	ark Surface (A12)		Depleted D	ark S	urface (F7	7)			urface (S9) <b>(LRR K, L)</b> inese Masses (F12) <b>(LRR K, L, R)</b>
Sandy N	lucky Mineral (S1)		Redox Dep	ressio	ons (F8)			0	loodplain Soils (F19) <b>(MLRA 149B)</b>
Sandy G	ileyed Matrix (S4)								ic (TA6) <b>(MLRA 144A, 145, 149B)</b>
Sandy R	edox (S5)							Red Parent	
Stripped	l Matrix (S6)								w Dark Surface (TF12)
Dark Su	rface (S7) <b>(LRR R, N</b>	/LRA 1	49B)					Other (Expla	
a. I									
	· · · · ·		h and wetland hyd	drolo	gy must t	be presen	t, unless disturb	ed or problematic	•
	.ayer (if observed): _								
	Туре:		None	-		Hydric S	oil Present?		Yes No
	Depth (inches):								
Remarks:									
A positive ir	ndication of hydric	soil wa	as observed. The	criter	ion for hy	ydric soil i	s met.		

Hydrology Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek Solar Project	City/County: Canajoharie, Montgomery County	Sampling Date: 2021-Nov-18
Applicant/Owner: SunEast	State: NY	Sampling Point: W-DJB-06_UPL-1
Investigator(s): David Bonomo, Giovanni Pambia	nchi Section, Township, Range:	NA
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none	: Convex Slope (%): 1 to 10
Subregion (LRR or MLRA): LRR L	Lat: 42.8723916667 Lon	<b>:</b> -74.5359328333 <b>Datum:</b> WGS84
Soil Map Unit Name: Madalin silty clay loam, 1 to	3 percent slopes	NWI classification: None
Are climatic/hydrologic conditions on the site typica	I for this time of year? Yes 🟒 No (If	no, explain in Remarks.)
	significantly disturbed? Are "Normal Circun naturally problematic? (If needed, explain a	istances" present? Yes 🖌 No iny answers in Remarks.)

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒											
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒									
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:										
Remarks: (Explain alternative procedures l	nere or in a separate repor	t)										
Covertype is UPL. Area is upland, not all three wetland parameters are present.												

#### HYDROLOGY

Wetland Hydrology Indicators:								
Primary Indicators (minimum o	f one is required; check all	<u>that apply)</u>	Secondary Indicators (minimum of two required)					
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial</li> <li>Sparsely Vegetated Concave</li> </ul>	Aquati Marl E Hydro Oxidiz Preser Recen Thin M Imagery (B7) Other	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3) nce of Reduced Iron (C4) t Iron Reduction in Tilled Soils (C6) fuck Surface (C7) (Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>					
Field Observations: Surface Water Present? Water Table Present?	Yes No 🟒	Depth (inches):	 Wetland Hydrology Present? Yes No					
Saturation Present? (includes capillary fringe)	Yes No _	Depth (inches):						
	n gauge, monitoring well, a	ierial photos, previous inspections), if	available:					
Remarks: The criterion for wetland hydro	logy is not met. No positive	e indication of wetland hydrology was	observed.					

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-06\_UPL-1

<u> </u>	Absolute	Dominant	Indicator	Dominance Test worksh			
	% Cover	Species?	Status	Number of Dominant Sp	ecies That	0	(A)
·				Are OBL, FACW, or FAC:			
				Total Number of Domina	ant Species	1	(B)
				Across All Strata:			
l				Percent of Dominant Spe	ecies That	0	(A/B)
				Are OBL, FACW, or FAC:			
i				Prevalence Index works			_
				- <u>Total % Cover o</u>		Multiply	
		= Total Cov	er	- OBL species	0	x 1 =	0
apling/Shrub Stratum (Plot size: <u>15 ft</u> )		_		FACW species	0	x 2 =	0
				FAC species	0	x 3 =	0
				FACU species	90	x 4 =	360
		·		- UPL species	5	x 5 =	25
		<u> </u>		- Column Totals	95	(A)	385 (B)
		<u> </u>		Prevalence Inc	dex = B/A =	4.1	. <u> </u>
		<u> </u>		Hydrophytic Vegetation	Indicators:		
		·		1- Rapid Test for Hy		egetatio	า
		·		2 - Dominance Test	t is > 50%	0	
	0	= Total Cov	er	3 - Prevalence Inde	x is ≤ $3.0^1$		
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological A		(Provide	supporting
. Phleum pratense	70	Yes	FACU	- data in Remarks or on a	•		
2. Galium mollugo	15	No	FACU	Problematic Hydro			xplain)
3. Daucus carota	5	No	UPL	<sup>1</sup> Indicators of hydric soil	and wetlan	d hydrolo	ogy must be
4. Solidago canadensis	5	No	FACU	present, unless disturbe	d or probler	matic	
				Definitions of Vegetation	n Strata:		
5.				Tree – Woody plants 3 in		more in	diameter a
7.				breast height (DBH), reg			
3.				Sapling/shrub - Woody	olants less tl	han 3 in.	DBH and
 ).				greater than or equal to	3.28 ft (1 m	) tall.	
0.				Herb – All herbaceous (r	non-woody)	plants, re	gardless of
				size, and woody plants le	ess than 3.2	8 ft tall.	
11				Woody vines - All woody	/ vines great	er than 3	8.28 ft in
	95	= Total Cov	or	height.			
Needy Vine Stratum (Plat size) 20 ft )	- 33		EI	Hydrophytic Vegetation	Present?	/es	No 🖌
<u>Noody Vine Stratum</u> (Plot size: <u>30 ft</u> )							
		·		-			
		<u> </u>		-			
3				-			
1		<u> </u>		-			
	0	= Total Cov	er				

SOIL

		to the de				indicato	r or confirm the al	bsence of indicator	s.)		
Depth	Matrix		Redox								
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks		
0 - 16	10YR 3/3	100					Silty Cla	y Loam			
				·		·					
				· —							
				· —		·					
17			- DM Deduced			N 4	Canad Cardina 21			NA NA-4	
		Depletic	on, RM = Reduced	Mat	1x, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore			
Hydric Soil			Dobarduo Do	C	urfaca (C			Indicators for Pro		•	
Histoso	pipedon (A2)		Polyvalue Bel					2 cm Muck (A			
Black Hi	•		Loamy Muck					Coast Prairie			
	en Sulfide (A4)		Loamy Gleye				-)	5 cm Mucky F			) (LRR K, L, R)
	d Layers (A5)		Depleted Ma					Dark Surface			
	d Below Dark Surfa		'		-			Polyvalue Bel			
	ark Surface (A12)	,	Depleted Dar			)		Thin Dark Sur			
	1ucky Mineral (S1)		Redox Depre					Iron-Mangan			
Sandy G	Gleyed Matrix (S4)							Piedmont Flo	•		
-	edox (S5)							Mesic Spodic			4A, 145, 149B)
-	d Matrix (S6)							Red Parent M			
	rface (S7) <b>(LRR R, N</b>	/I RA 149	9B)					Very Shallow			F12)
								Other (Explai	i in Re	marks)	
<sup>3</sup> Indicators	of hydrophytic veg	etation	and wetland hydr	olog	y must b	e preser	t, unless disturbe	d or problematic.			
Restrictive	_ayer (if observed):	:									
	Туре:		None	_		Hydric	Soil Present?		Yes	No	<u>/</u>
	Depth (inches):			-							
Remarks:	· · ·										
No positive	indication of hydri	ic soils w	as observed. The	e crite	erion for	hydric s	oil is not met.				
1											
1											

Soil Photos



Photo of Sample Plot North



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k Solar Projec	:	City/County:	Canajoharie, Mo	ontgomery	County		Sampling Date:	2021-Nov-19	
Applicant/Owner: S	unEast				State:	NY		Sampling Point: <u>\</u>	W-DJB-07_PEM-1	
Investigator(s): Davi	d Bonomo, Gi	ovanni Pambian	ichi	Sec	tion, Towns	hip, Ran	ge: NA	A		
Landform (hillslope, te	rrace, etc.):	Swale		Local relief	(concave, c	convex, r	none):	Concave	Slope (%):	1 to 10
Subregion (LRR or MLF	RA): LRR	_		Lat:	42.871463	325	Long:	-74.5367571667	Datum: W	GS84
Soil Map Unit Name:	Darien silt lo	am, 3 to 8 perce	ent slopes					NWI classific	ation: None	
Are climatic/hydrologic	c conditions o	n the site typical	for this time	of year?	Yes 🖌	_No	_ (If no	, explain in Remar	rks.)	
Are Vegetation, Are Vegetation,		or Hydrology or Hydrology	0	tly disturbed? problematic?				ances" present? / answers in Rema	Yes <u>/</u> No _ arks.)	

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No									
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No							
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-DJB-07							
Remarks: (Explain alternative procedures here or in a separate report)										
Covertype is PEM. Area is wetland, all three wetland parameters are present.										

### HYDROLOGY

Wetland Hydrology Indicators:					
Primary Indicators (minimum) ✓ Surface Water (A1) ✓ High Water Table (A2) Saturation (A3) Water Marks (B1)		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Dry-Season Water Table (C2)			
Sediment Deposits (B2)     Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Concav	Prese Recen Thin N al Imagery (B7) Other	eed Rhizospheres on Living nce of Reduced Iron (C4) nt Iron Reduction in Tilled S Muck Surface (C7) (Explain in Remarks)		<ul> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>	
Field Observations:					
Surface Water Present?	Yes 🟒 No	Depth (inches):	2	_	
Water Table Present?	Yes 🟒 No	Depth (inches):	0	Wetland Hydrology Present? Yes No	
Saturation Present?	Yes No 🟒	Depth (inches):			
(includes capillary fringe)				_	
Describe Recorded Data (strea	am gauge, monitoring well, a	aerial photos, previous ins	pections), if	available:	
Remarks: The criterion for wetland hydr	ology is met. A positive indi	cation of wetland hydrolog	gy was obser	rved (primary and secondary indicators were present	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-07\_PEM-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test work Number of Dominant Are OBL, FACW, or FAC	Species That	2	(A)
1 2				Total Number of Dom		2	(B)
3 4				Percent of Dominant 9 Are OBL, FACW, or FAC		100	(A/B)
5				Prevalence Index wor	ksheet:		
				- <u>Total % Cove</u>	<u>r of:</u>	<u>Multiply</u>	By:
7				- OBL species	30	x 1 =	30
	0	= Total Cov	er	FACW species	70	x 2 =	140
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	0	x 3 =	0
				- FACU species	0	x 4 =	0
<u></u>				- UPL species	0	x 5 =	0
3				- Column Totals	100	(A)	170 (B)
4				- Prevalence I	ndex = B/A =	1.7	,
5				Hydrophytic Vegetatio	n Indicators:		
5				1- Rapid Test for		egetation	
·				$\sim$ 2 - Dominance Te		egetation	
	0	= Total Cov	er	✓ 3 - Prevalence In			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologica		(Provide	supporting
1. <i>Phalaris arundinacea</i>	70	Yes	FACW	- data in Remarks or on		-	Supporting
2. <u>Carex vulpinoidea</u>	25	Yes	OBL	Problematic Hyd		-	plain)
3. Juncus effusus	5	No	OBL	- <sup>1</sup> Indicators of hydric s			
4				present, unless distur		· ·	
5.				Definitions of Vegetat			
6				Tree – Woody plants 3		more in o	diameter a
7.				breast height (DBH), r			
8.				Sapling/shrub - Wood	-	-	OBH and
Э.				greater than or equal	to 3.28 ft (1 m	) tall.	
10				- Herb – All herbaceous	(non-woody)	plants, re	gardless of
11				size, and woody plant	s less than 3.2	8 ft tall.	
12.				Woody vines – All woo	ody vines great	er than 3	28 ft in
	100	= Total Cov	er	height.			
Woody Vine Stratum (Plot size: <u>30 ft</u> )	-100	-	C1	Hydrophytic Vegetati	on Present?	′es 🟒 N	lo
· · · · · · · · · · · · · · · · · · ·							
1 2.				-			
				-			
				-			
4				-			
	0	= Total Cov	er				

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is ≤ 3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

SOIL

Depth	Matrix	to the	Redo				onfirm the a	bsence of indicators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 14	10YR 3/1	95	7.5YR 4/6	5	C C	 M/PL	Clay Loai	
0-14	1018 3/1		7.517 4/0		<u> </u>			
· ·								
$^{1}$ Type: C = C	oncentration, D =	 Denlet	ion RM = Reduce	d Ma	trix MS =	Masked Sand	Grains <sup>2</sup>	ocation: PL = Pore Lining, M = Matrix.
Hydric Soil I		Schief	ion, neu neu de		- כואן אווס -	masked Jan	Stants, "L	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyadus P	alow	Surface (	S8) <b>(LRR R, ML</b>		-
	(AT) bipedon (A2)					58) (LRR R, ML R R, MLRA 149		2 cm Muck (A10) (LRR K, L, MLRA 149B)
Black His			Loamy Muc				DJ	Coast Prairie Redox (A16) <b>(LRR K, L, R)</b>
	en Sulfide (A4)		Loamy Gley					5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	d Layers (A5)		Depleted M					Dark Surface (S7) <b>(LRR K, L)</b>
	d Below Dark Surfa	ace (A1						Polyvalue Below Surface (S8) (LRR K, L)
•	ark Surface (A12)		Depleted D			7)		Thin Dark Surface (S9) (LRR K, L)
Sandy M	lucky Mineral (S1)		Redox Depr					Iron-Manganese Masses (F12) (LRR K, L, R)
	ileyed Matrix (S4)							Piedmont Floodplain Soils (F19) <b>(MLRA 149B)</b>
	edox (S5)							Mesic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	Matrix (S6)							Red Parent Material (F21)
	rface (S7) <b>(LRR R, N</b>	/I RA 1	49B)					Very Shallow Dark Surface (TF12)
	(b)) <b>(</b>							Other (Explain in Remarks)
	of hydrophytic veg	-	n and wetland hyd	drolo	gy must l	pe present, un	ess disturbe	ed or problematic.
	ayer (if observed):			_		Hydric Soil Pi	esent?	Yes 🟒 No
	<b>.ayer (if observed)</b> : Type:		None					
	-		None					
	Туре:		None					
Remarks:	Туре:			criter	ion for h	l /dric soil is me	t.	
Remarks:	Type: Depth (inches):			criter	ion for h	/dric soil is me	t.	
Remarks:	Type: Depth (inches):			criter	ion for h	 /dric soil is me	t.	
Remarks:	Type: Depth (inches):			criter	ion for hỵ	 /dric soil is me	t.	
Remarks:	Type: Depth (inches):			criter	ion for h <u>y</u>	/dric soil is me	t.	
Remarks:	Type: Depth (inches):			criter	ion for h	/dric soil is me	t.	
Remarks:	Type: Depth (inches):			criter	ion for h	l /dric soil is me	t.	
Remarks:	Type: Depth (inches):			criter	ion for h	l	t.	
Remarks:	Type: Depth (inches):			criter	ion for h	l	t.	
Remarks:	Type: Depth (inches):			criter	ion for h <u>y</u>	/dric soil is me	t.	
Remarks:	Type: Depth (inches):			criter	ion for hy	/dric soil is me	t.	
Remarks:	Type: Depth (inches):			criter	ion for hy	J	t.	
Remarks:	Type: Depth (inches):			criter	ion for hy	J	t.	
Remarks:	Type: Depth (inches):			criter	ion for h	J	t.	
Remarks:	Type: Depth (inches):			criter	ion for h	l /dric soil is me	t.	
Remarks:	Type: Depth (inches):			criter	ion for h	l /dric soil is me	t.	
Remarks:	Type: Depth (inches):			criter	ion for h	l /dric soil is me	t.	
Remarks:	Type: Depth (inches):			criter	ion for h	/	t.	
Remarks:	Type: Depth (inches):			criter	ion for h	/	t.	

Hydrology Photos



Soil Photos



Photo of Sample Plot North

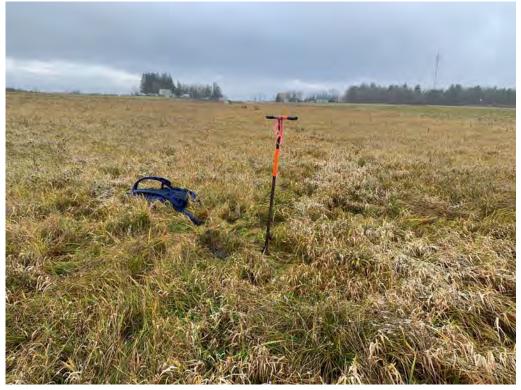


Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

#### Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek Solar Project	City/County: Canajoharie, Montgomery County	Sampling Date: 2021-Nov-18
Applicant/Owner: SunEast	State: NY	Sampling Point: W-DJB-07_UPL-1
Investigator(s): David Bonomo, Giovanni Pambiar	chi Section, Township, Range	: NA
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, no	ne): Convex Slope (%): 1 to 10
Subregion (LRR or MLRA): LRR L	Lat: 42.8715513833 Lo	ong: -74.5363378 Datum: WGS84
Soil Map Unit Name: Darien silt loam, 3 to 8 perce	ent slopes	NWI classification: None
Are climatic/hydrologic conditions on the site typica	for this time of year? Yes _	lf no, explain in Remarks.)
		umstances" present? Yes No n any answers in Remarks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒								
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland? Yes No _							
Wetland Hydrology Present?	Yes No 🟒	If yes, optional Wetland Site ID:							
Remarks: (Explain alternative procedures he	re or in a separate report	)							
Covertype is UPL. Area is upland, not all three wetland parameters are present. Circumstances are not normal due to agricultural activities.									

### HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of o	ne is required; check all	<u>that apply)</u>	Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Im</li> <li>Sparsely Vegetated Concave Sumption</li> </ul>	Aquat Marl E Hydro Oxidiz Presei Recen Thin N agery (B7) Other	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) red Rhizospheres on Living Roots (C3) nce of Reduced Iron (C4) t Iron Reduction in Tilled Soils (C6) Auck Surface (C7) (Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations: Surface Water Present? Water Table Present? Saturation Present?	Yes No _✔ Yes No _✔ Yes No _✔	Depth (inches): Depth (inches): Depth (inches):	_ 
(includes capillary fringe) Describe Recorded Data (stream g	gauge, monitoring well, a	aerial photos, previous inspections), il	f available:
Remarks: The criterion for wetland hydrolog	ty is not met. No positive	e indication of wetland hydrology was	s observed.

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-07\_UPL-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant	Indicator	Dominance Test workshe			
	% Cover	Species?	Status	Number of Dominant Sp Are OBL, FACW, or FAC:	ecies That	0	(A)
·		·		Total Number of Domina	nt Species	1	(B)
				Across All Strata:			(8)
				Percent of Dominant Spe	cies That	0	(A/B)
5.				Are OBL, FACW, or FAC:			
				<ul> <li>Prevalence Index worksh</li> </ul>			
				- <u>Total % Cover of</u>		Multiply	•
		= Total Cov	er	- OBL species	0	x 1 =	0
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FACW species	5	x 2 =	10
				FAC species	0	x 3 =	0
		·		FACU species	100	x 4 =	400
·				- UPL species	0	x 5 =	0
·		·		- Column Totals	105	(A)	410 (B)
		·		Prevalence Ind	ex = B/A =	3.9	
·				Hydrophytic Vegetation I	ndicators:		
		·		1- Rapid Test for Hy	drophytic V	egetation	٦
•	0	= Total Cov		2 - Dominance Test	is > 50%		
larh Stratum (Plat ciza) E ft )	0	- 10101 COV	ei	3 - Prevalence Index	is $\leq 3.0^1$		
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> ) . <i>Phleum pratense</i>	80	Yes	FACU	4 - Morphological A	daptations <sup>1</sup>	(Provide	supportin
· · · · ·	10	No	FACU	- data in Remarks or on a s	separate sh	eet)	
. Galium mollugo				Problematic Hydrop	hytic Veget	tation <sup>1</sup> (E	xplain)
. Trifolium pratense		No	FACU	<sup>1</sup> Indicators of hydric soil			ogy must b
. Phalaris arundinacea	5	No	FACW	present, unless disturbed		matic	
		<u> </u>		_ Definitions of Vegetation			
		·		Tree – Woody plants 3 in.			diameter a
		·		breast height (DBH), rega		-	
		·		Sapling/shrub – Woody p			DBH and
		·		greater than or equal to 3			
0				Herb – All herbaceous (ne size, and woody plants le			gardiess o
1				Woody vines – All woody			28 ft in
2				height.	vines great		.201111
	105	= Total Cov	er		D	(	
<u>Noody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation	Present? Y	res l	NO 🔽
				_			
				_			
3				_			
1.							
	0	= Total Cov	er	-			

SOIL

		to the de				indicato	r or confirm the al	bsence of indicato	rs.)	
Depth _	Matrix		Redox							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text		Remarks	
0 - 16	10YR 3/4	100					Silty Cla	y Loam		
<sup>1</sup> Type: C = C	oncentration, D =	Depletio	n, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore	Lining, N	M = Matrix.
Hydric Soil	ndicators:							Indicators for Pro	oblemat	tic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Bel	ow S	urface (S	8) (LRR	R, MLRA 149B)			R K, L, MLRA 149B)
Histic Ep	pipedon (A2)		Thin Dark Su							
Black Hi			Loamy Mucky							(A16) <b>(LRR K, L, R)</b> Peat (S3) <b>(LRR K, L, R)</b>
Hydroge	en Sulfide (A4)		Loamy Gleye					,		
	d Layers (A5)		Depleted Mat					Dark Surface		
	d Below Dark Surfa	ace (A11)	) Redox Dark S	urfac	ce (F6)					face (S8) <b>(LRR K, L)</b>
Thick Da	ark Surface (A12)		Depleted Dar	k Sui	face (F7)	)		Thin Dark Su		
Sandy N	lucky Mineral (S1)		Redox Depre	ssior	ıs (F8)			0		sses (F12) <b>(LRR K, L, R)</b>
Sandy G	ileyed Matrix (S4)									Soils (F19) <b>(MLRA 149B)</b>
-	edox (S5)									MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent M		
	rface (S7) <b>(LRR R, N</b>		)B)					Very Shallow		
Durk Su			,0)					Other (Explai	n in Rer	marks)
<sup>3</sup> Indicators	of hydrophytic veg	etation a	and wetland hydr	ology	y must b	e preser	ıt, unless disturbe	d or problematic.		
Restrictive I	ayer (if observed):									
	Type:		None			Hydric	Soil Present?		Yes	_ No
	Depth (inches):			-		5				
Remarks:				·						
	indication of hydri	ic soils w	as observed. The	crite	erion for	hydric so	oil is not met.			
1										

Soil Photos



Photo of Sample Plot North



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k Solar Projec	t	City/County:	Canajoharie, Mo	ontgomery Cou	unty	Sampling Date:	2021-Nov-19	
Applicant/Owner: S	unEast				State: NY	,	Sampling Point:	W-DJB-08_PEM-1	
Investigator(s): Davi	d Bonomo, Gi	ovanni Pambiar	ichi	Sect	ion, Township	, Range: N/	4		
Landform (hillslope, te	rrace, etc.):	Swale		Local relief	(concave, con	vex, none):	Concave	Slope (%):	1 to 10
Subregion (LRR or MLF	RA): LRR	L		Lat:	42.870380483	33 Long:	-74.53970205	Datum: WC	JS84
Soil Map Unit Name:	Darien silt lo	am, 3 to 8 perce	ent slopes				NWI classific	cation: None	
Are climatic/hydrologic	c conditions o	n the site typical	for this time	of year?	Yes 🟒 No	o (If no	, explain in Rema	irks.)	
Are Vegetation, Are Vegetation,		or Hydrology or Hydrology	-	•			ances" present? y answers in Rem	Yes 🟒 No _ arks.)	

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No								
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No						
Wetland Hydrology Present?	Yes 🟒 No	lf yes, optional Wetland Site ID:	W-DJB-08						
Remarks: (Explain alternative procedures he	re or in a separate report	)							
Covertype is PEM. Area is wetland, all three wetland parameters are present.									

### HYDROLOGY

✓ Surface Water (A1)       Water-Stained Leaves (B9)          ✓ High Water Table (A2)       Aquatic Fauna (B13)          Saturation (A3)       Marl Deposits (B15)          Water Marks (B1)       Hydrogen Sulfide Odor (C1)          Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)          Drift Deposits (B3)       Presence of Reduced Iron (C4)          Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)
Drift Deposits (B3)       Presence of Reduced Iron (C4)          Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)          Iron Deposits (B5)       Thin Muck Surface (C7)          Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)          Sparsely Vegetated Concave Surface (B8)	<ul> <li> Stunted or Stressed Plants (D1)</li> <li> Geomorphic Position (D2)</li> <li> Shallow Aquitard (D3)</li> <li> Microtopographic Relief (D4)</li> </ul>
	<ul> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> </ul>
Water Table Present? Yes 🖌 No Depth (inches): 0	Wetland Hydrology Present? Yes No
Saturation Present? Yes No Depth (inches):	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if a	vailable:
Remarks: The criterion for wetland hydrology is met. A positive indication of wetland hydrology was observe	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-08\_PEM-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test works	heet:			
	% Cover	Species?	Status	Number of Dominant S Are OBL, FACW, or FAC	•	1	(A)	
				Total Number of Domi				
<u> </u>				Across All Strata:	and species	1	(B)	
3				Percent of Dominant S	pecies That	100		
4 5.				Are OBL, FACW, or FAC	•	100	(A/B)	
		·		<ul> <li>Prevalence Index work</li> </ul>	sheet:			
7				- <u>Total % Cover</u>	<u>of:</u>	<u>Multiply</u>	<u>By:</u>	
·	0	= Total Cov	or	- OBL species	25	x 1 =	25	
Capling (Church Church um (Dist size) 15 ft	0	- 10tal COV	er	FACW species	80	x 2 =	160	
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species	0	x 3 =	0	
l				FACU species	0	x 4 =	0	
				- UPL species	0	x 5 =	0	
3				- Column Totals	105	(A)	185 (B)	
4				Prevalence Ir	ndex = B/A =	1.8		
5				Hydrophytic Vegetation	n Indicators:			
5				1- Rapid Test for H	- Hydrophytic V	egetatior	ı	
7				2 - Dominance Te	✓ 2 - Dominance Test is >50%			
	0	= Total Cov	er	3 - Prevalence Inc				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological	Adaptations <sup>1</sup>	(Provide	supporting	
1. Phalaris arundinacea	80	Yes	FACW	- data in Remarks or on	a separate sh	eet)		
2. <u>Carex vulpinoidea</u>	20	No	OBL	Problematic Hydr	ophytic Vege	tation <sup>1</sup> (Ex	(plain)	
3. Juncus effusus	5	No	OBL	<sup>1</sup> Indicators of hydric so	il and wetlan	d hydrolo	gy must be	
4				present, unless disturb	ed or probler	matic		
5				Definitions of Vegetation	on Strata:			
5				Tree – Woody plants 3	in. (7.6 cm) or	more in	diameter a	
7				breast height (DBH), re	gardless of h	eight.		
3				Sapling/shrub - Woody	•		OBH and	
Э				greater than or equal t		-		
10				Herb – All herbaceous			gardless o	
I1				size, and woody plants				
12				Woody vines – All wood	dy vines great	er than 3	.28 ft in	
	105	= Total Cov	er	height.				
<u> Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetatio	n Present?	/es 🟒 N	lo	
I								
2.				-				
3.				-				
4.				-				
	0	= Total Cov	~~	-				

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is  $\leq$  3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

### SOIL

Profile Des	cription: (Describe	to the	•			indicator	or confirm the a	bsence of	indicators.)
Depth	Matrix		Redox	(Fea	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 14	10YR 3/1	95	7.5YR 4/6	5	С	M/PL	Clay Loa	m	
-									
-				_					
				_					
-									
				—					
				—					
				—					
				—					
-									
				—					
		Deplet	ion, RM = Reduce	d Ma	atrix, MS =	- Masked	Sand Grains. <sup>2</sup> L		PL = Pore Lining, M = Matrix.
Hydric Soil				. 1 .	C	co) (/ PE -			ors for Problematic Hydric Soils <sup>3</sup> :
Histoso					-		R, MLRA 149B)	2 cn	n Muck (A10) <b>(LRR K, L, MLRA 149B)</b>
	pipedon (A2)		Thin Dark S					Coa	st Prairie Redox (A16) <b>(LRR K, L, R)</b>
Black Hi			Loamy Muc	-		) (LRR K, L	-)	5 cm	n Mucky Peat or Peat (S3) <b>(LRR K, L, R)</b>
	en Sulfide (A4) d Layers (A5)		Loamy Gley Depleted M					Darl	k Surface (S7) <b>(LRR K, L)</b>
	d Below Dark Surfa	مدم (۱۵						Poly	value Below Surface (S8) <b>(LRR K, L)</b>
•	ark Surface (A12)		Depleted Da			7)			n Dark Surface (S9) <b>(LRR K, L)</b>
	fucky Mineral (S1)		Redox Depr			,			-Manganese Masses (F12) <b>(LRR K, L, R)</b>
	leyed Matrix (S4)			COOR	) 115 (1 0)			Piec	lmont Floodplain Soils (F19) <b>(MLRA 149B)</b>
-	edox (S5)							Mes	ic Spodic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	d Matrix (S6)								Parent Material (F21)
	rface (S7) <b>(LRR R, N</b>		40P)						/ Shallow Dark Surface (TF12)
Dark Su	11ace (37) <b>(LKK K, N</b>		496)					Oth	er (Explain in Remarks)
-	of hydrophytic veg		n and wetland hyd	Irolo	gy must k	be presen	t, unless disturbe	ed or prob	lematic.
Restrictive	_ayer (if observed)	:							
	Туре:		None			Hydric S	oil Present?		Yes 🟒 No
	Depth (inches):								
Remarks:									
A positive i	ndication of hydric	soil wa	as observed. The o	riter	ion for h	dric soil	is met.		
l									
l									
1									
1									
1									

### Hydrology Photos



Soil Photos



#### Photo of Sample Plot North



Photo of Sample Plot East



#### Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek Solar Project	City/County: Canajoharie, Mo	ntgomery County	Sampling Date: 202	1-Nov-18
Applicant/Owner: SunEast		State: NY	Sampling Point: W-DJ	B-08_UPL-1
Investigator(s): David Bonomo, Giovanni Pambiar	ichi Secti	on, Township, Range: N.	4	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (	concave, convex, none):	Convex	Slope (%): 1 to 10
Subregion (LRR or MLRA): LRR L	Lat:	42.8705675 Long:	-74.5392828167	Datum: WGS84
Soil Map Unit Name: Darien silt loam, 3 to 8 perce	ent slopes		NWI classification	n: None
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         Are Vegetation,       Soil,       or Hydrology	significantly disturbed? naturally problematic?	Are "Normal Circums (If needed, explain an	ances" present?	Yes No 🟒 )

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒		
Hydric Soil Present?	Yes No 🟒	Is the Sampled Area within a Wetland?	Yes No 🟒
Wetland Hydrology Present?	Yes No _	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures h	ere or in a separate report	;)	
Covertype is UPL. Area is upland, not all thr	ee wetland parameters ar	e present. Circumstances are not normal due to agricul	tural activities.

### HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of	f one is required; check all	that apply)	Secondary Indicators (minimum of two required)
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial</li> <li>Sparsely Vegetated Concave</li> </ul>	Aquat Marl E Hydro Oxidiz Preser Recen Thin M Imagery (B7) Other	-Stained Leaves (B9) ic Fauna (B13) Deposits (B15) gen Sulfide Odor (C1) ed Rhizospheres on Living Roots (C3 nce of Reduced Iron (C4) t Iron Reduction in Tilled Soils (C6) Auck Surface (C7) (Explain in Remarks)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Yes No _ <b>∠</b> Yes No _ <b>∠</b> Yes No _ <b>∠</b>	Depth (inches): Depth (inches): Depth (inches):	 Wetland Hydrology Present? Yes №
	n gauge, monitoring well, a	erial photos, previous inspections), i	f available:
Remarks:			
The criterion for wetland hydro	logy is not met. No positive	e indication of wetland hydrology wa	s observed.

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-08\_UPL-1

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species Tha Are OBL, FACW, or FAC:	t 0	(A)
		·		Total Number of Dominant Specie	s	
		·		Across All Strata:	<sup>3</sup> 1	(B)
·				Percent of Dominant Species That		(1 (5)
k		·		Are OBL, FACW, or FAC:	0	(A/B)
		·		Prevalence Index worksheet:		
·		·		Total % Cover of:	<u>Multiply</u>	<u>' By:</u>
				OBL species 0	x 1 =	0
	0	= Total Cov	er	FACW species 0	x 2 =	0
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 0	x 3 =	0
·				FACU species 100	x 4 =	400
		·		UPL species 0	x 5 =	0
·				Column Totals 100	(A)	400 (B)
				Prevalence Index = B/A	= 4	. ,
				Hydrophytic Vegetation Indicators		······
				1- Rapid Test for Hydrophytic		n
				2 - Dominance Test is > 50%	, regetation	
	0	= Total Cov	er	$3 - Prevalence Index is \leq 3.0^{\circ}$	I	
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphological Adaptation		supporting
. Phleum pratense	70	Yes	FACU	data in Remarks or on a separate	-	
e. Galium mollugo	15	No	FACU	Problematic Hydrophytic Ver		xplain)
8. Taraxacum officinale	10	No	FACU	<sup>1</sup> Indicators of hydric soil and wetla	nd hydrolo	ogy must be
<i>Trifolium pratense</i>	5	No	FACU	present, unless disturbed or prob	ematic	
				Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm)	or more in	diameter a
		<u> </u>		breast height (DBH), regardless of	height.	
				Sapling/shrub – Woody plants less	than 3 in.	DBH and
				greater than or equal to 3.28 ft (1		
0				Herb – All herbaceous (non-wood		gardless of
1				size, and woody plants less than 3		
2.				Woody vines – All woody vines gre	ater than 3	3.28 ft in
	100	= Total Cov	er	height.		
<u>Noody Vine Stratum</u> (Plot size: <u>30 ft</u> )		-		Hydrophytic Vegetation Present?	Yes	No 🟒
·						
·		·				
3.		·		-		
l.				-		
	0	= Total Cov	er	-		
		-				

SOIL

		to the de				indicato	r or confirm the al	bsence of indicato	rs.)	
Depth _	Matrix		Redox							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text			Remarks
0 - 16	10YR 3/4	100					Silty Cla	y Loam		
<sup>1</sup> Type: C = C	oncentration, D =	Depletio	n, RM = Reduced	Mati	rix, MS =	Masked	Sand Grains. <sup>2</sup> Lo	ocation: PL = Pore	Lining, N	M = Matrix.
Hydric Soil	ndicators:							Indicators for Pro	oblemat	tic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Bel	ow S	urface (S	8) (LRR	R, MLRA 149B)			R K, L, MLRA 149B)
Histic Ep	pipedon (A2)		Thin Dark Su							
Black Hi			Loamy Mucky							(A16) <b>(LRR K, L, R)</b> Peat (S3) <b>(LRR K, L, R)</b>
Hydroge	en Sulfide (A4)		Loamy Gleye					,		
	d Layers (A5)		Depleted Mat					Dark Surface		
	d Below Dark Surfa	ace (A11)	) Redox Dark S	urfac	ce (F6)					face (S8) <b>(LRR K, L)</b>
Thick Da	ark Surface (A12)		Depleted Dar	k Sui	face (F7)	)		Thin Dark Su		
Sandy N	lucky Mineral (S1)		Redox Depre	ssior	ıs (F8)			0		sses (F12) <b>(LRR K, L, R)</b>
Sandy G	ileyed Matrix (S4)									Soils (F19) <b>(MLRA 149B)</b>
-	edox (S5)									MLRA 144A, 145, 149B)
-	d Matrix (S6)							Red Parent M		
	rface (S7) <b>(LRR R, N</b>		)B)					Very Shallow		
Durk Su			,0)					Other (Explai	n in Rer	marks)
<sup>3</sup> Indicators	of hydrophytic veg	etation a	and wetland hydr	ology	y must b	e preser	ıt, unless disturbe	d or problematic.		
Restrictive I	ayer (if observed):									
	Type:		None			Hydric	Soil Present?		Yes	_ No
	Depth (inches):			-		5				
Remarks:				·						
	indication of hydri	ic soils w	as observed. The	crite	erion for	hydric so	oil is not met.			
1										

Soil Photos



Photo of Sample Plot North



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

### Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k Solar Projec		City/County:	Canajoharie, Mo	ontgomery County	/	Sampling Date:	2021-Nov-16
Applicant/Owner: S	unEast				State: NY		Sampling Point: W	-DJB-09_PEM-1
Investigator(s): Davi	d Bonomo, Gi	ovanni Pambiano	chi	Sec	tion, Township, Ra	nge: N/	4	
Landform (hillslope, te	rrace, etc.):	Swale		Local relief	(concave, convex,	none):	Concave	Slope (%): 1 to 3
Subregion (LRR or MLF	RA): LRR	_		Lat:	42.8735922667	Long:	-74.5420668333	Datum: WGS84
Soil Map Unit Name:	llion silt loar	n, 3-8 percent slo	pes				NWI classificat	tion: None
Are climatic/hydrologic	c conditions o	n the site typical	for this time	of year?	Yes 🟒 No 🔄	(If no	, explain in Remark	s.)
<b>o</b>		or Hydrology or Hydrology	_ 0	5			ances" present? y answers in Remar	Yes 🟒 No ks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🧹 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-DJB-09
Remarks: (Explain alternative procedures h	ere or in a separate report	)	
Covertype is PEM. Area is wetland, all three	wetland parameters are p	present.	

### HYDROLOGY

Wetland Hydrology Indicators:					
Primary Indicators (minimum o	of one is required; check a	<u>ill that apply)</u>		Secondary Indicators (minimum of two required)	
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aeria</li> <li>Sparsely Vegetated Concav</li> </ul>	— Aqua — Marl — Hydr — Oxid — Pres — Rece — Thin al Imagery (B7) — Othe	er-Stained Leaves (B9) atic Fauna (B13) I Deposits (B15) rogen Sulfide Odor (C1) dized Rhizospheres on Living sence of Reduced Iron (C4) ent Iron Reduction in Tilled Sc Muck Surface (C7) er (Explain in Remarks)		<ul> <li> Surface Soil Cracks (B6)</li> <li> Drainage Patterns (B10)</li> <li> Moss Trim Lines (B16)</li> <li> Dry-Season Water Table (C2)</li> <li> Crayfish Burrows (C8)</li> <li> Saturation Visible on Aerial Imagery (C9)</li> <li> Stunted or Stressed Plants (D1)</li> <li> Geomorphic Position (D2)</li> <li> Shallow Aquitard (D3)</li> <li> Microtopographic Relief (D4)</li> <li> FAC-Neutral Test (D5)</li> </ul>	
Field Observations:					
Surface Water Present?	Yes 🟒 No	Depth (inches):	1	_	
Water Table Present?	Yes 🟒 No	Depth (inches):	0	Wetland Hydrology Present? Yes No	
Saturation Present?	Yes 🟒 No	Depth (inches):	10		
(includes capillary fringe)					
Describe Recorded Data (strea	ım gauge, monitoring well	, aerial photos, previous insp	ections), if	available:	
Remarks:					

#### Remarks:

The criterion for wetland hydrology is met. A positive indication of wetland hydrology was observed (primary and secondary indicators were present).

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-09\_PEM-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test works		1		
				Are OBL, FACW, or FAC	:		(A)	
2.				Total Number of Domi Across All Strata:	tal Number of Dominant Species ross All Strata:		(B)	
3 1		·		Percent of Dominant S Are OBL, FACW, or FAC	•	100	(A/B)	
5				Prevalence Index work				
5				- Total % Cover	of:	Multiply	Bv:	
7				- OBL species	15	x 1 =	 15	
	0	= Total Cov	er	FACW species	75	x 2 =	150	
<u> Sapling/Shrub Stratum</u> (Plot size: <u>15 ft</u> )				FAC species	5	x 3 =	15	
				- FACU species	0	x 4 =	0	
2				- UPL species	0	x 5 =	0	
3				- Column Totals	95	(A)	180 (B)	
4				Prevalence li		1.9	100 (D)	
5								
				Hydrophytic Vegetatio				
7					_ 1- Rapid Test for Hydrophytic ✓ 2 - Dominance Test is >50%			
	0	= Total Cov	er	✓ 3 - Prevalence Index is $\leq 3.0^{1}$				
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )				4 - Morphologica		(Drovido	cupportin	
1. <i>Phalaris arundinacea</i>	75	Yes	FACW	- data in Remarks or on		-	supporting	
2. Juncus effusus	15	No	OBL	Problematic Hydr	•		nlain)	
3. Equisetum arvense	5	No	FAC	<ul> <li>Indicators of hydric so</li> </ul>				
4.				present, unless disturb		,	59 111452 50	
5.				Definitions of Vegetation				
5.				Tree – Woody plants 3		· more in a	diameter a	
7.		. <u> </u>		breast height (DBH), re				
8.				Sapling/shrub - Wood	•	-	OBH and	
Э				greater than or equal t	to 3.28 ft (1 m	) tall.		
10.				Herb – All herbaceous	(non-woody)	plants, reg	gardless of	
11				size, and woody plants	less than 3.2	8 ft tall.		
12.		· ·		Woody vines – All woo	dy vines great	er than 3.	28 ft in	
· · · · · · · · · · · · · · · · · · ·	95	= Total Cov	er	height.				
<u>Woody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetatic	on Present? Y	∕es _∠_ N	lo	
1 2.		·		-				
		·		-				
	<u> </u>	·		-				
4				-				
	0	= Total Cov	er					

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is  $\leq$  3.00). A positive indication of hydrophytic vegetation was observed (Rapid Test for Hydrophytic Vegetation).

SOIL

	•	to the de	•			indicato	r or confirm the	absence of indicato	ors.)
Depth	Matrix		Redox				-		
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0 - 4	10YR 3/3	100		· _			Silt Loam		
4 - 12	10YR 4/2	95	7.5YR 5/8	5	C	M	Silty Clay Loam		
12 - 16	10YR 5/1	100					Silty Clay Loam		
. <u> </u>									
				· —					
. <u> </u>									
		<u> </u>							
	Concentration, D =	Depletio	n, RM = Reduced	Mat	rıx, MS =	Masked	Sand Grains.		ELining, M = Matrix.
	Indicators:					· 0) // PF			roblematic Hydric Soils <sup>3</sup> :
Histoso	ol (A1) pipedon (A2)		Polyvalue Bel Thin Dark Su						A10) <b>(LRR K, L, MLRA 149B)</b>
	listic (A3)		Loamy Muck				-		e Redox (A16) <b>(LRR K, L, R)</b>
	en Sulfide (A4)		Loamy Gleye				L)		Peat or Peat (S3) (LRR K, L, R)
	ed Layers (A5)		Depleted Ma					Dark Surface	
	ed Below Dark Surfa	ace (A11)							elow Surface (S8) <b>(LRR K, L)</b>
Thick D	ark Surface (A12)		Depleted Dar			)			urface (S9) <b>(LRR K, L)</b> nese Masses (F12) <b>(LRR K, L, R)</b>
Sandy I	Mucky Mineral (S1)		Redox Depre	ssior	ıs (F8)				oodplain Soils (F19) (MLRA 149B)
-	Gleyed Matrix (S4)								c (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	Redox (S5)							Red Parent I	
	d Matrix (S6)								v Dark Surface (TF12)
Dark Sı	urface (S7) <b>(LRR R, N</b>	1LRA 149	9B)					Other (Expla	
<sup>3</sup> Indicators	of hydrophytic veg	etation a	and wetland hydr	olog	/ must b	e preser	nt, unless distur	oed or problematic.	
Restrictive	Layer (if observed):					ľ		•	
	Type:		None			Hydric	: Soil Present?		Yes 🟒 No
	Depth (inches):			-					
Remarks:									
	ndication of hydric	soil was	observed. The cr	iterio	on for hy	dric soil	is met.		
	-				-				
I									
l									

Hydrology Photos



Soil Photos

Photo of Sample Plot North



Photo of Sample Plot East



#### Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Creek Solar Project	<b></b>	y Sampling Date: 2021-Nov-19
Applicant/Owner: SunEast	State: NY	Sampling Point: W-DJB-09_PFO-1
Investigator(s): David Bonomo, Giovanni Pambia	anchi Section, Township, Ra	ange: NA
Landform (hillslope, terrace, etc.): Foot slope	Local relief (concave, convex	, none): Concave Slope (%): 1 to 3
Subregion (LRR or MLRA): LRR L	Lat: 42.87452475	Long: -74.54230485 Datum: WGS84
Soil Map Unit Name: Ilion silt loam, 0 to 3 perce	nt slopes	NWI classification: None
Are climatic/hydrologic conditions on the site typic	al for this time of year? Yes 🟒 No	(lf no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal 0	Circumstances" present? Yes 🟒 No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, ex	plain any answers in Remarks.)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No											
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🯒 No									
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-DJB-09									
Remarks: (Explain alternative procedures	s here or in a separate repo	ort)										
Covertype is PFO. Area is wetland, all three	Covertype is PFO. Area is wetland, all three wetland parameters are present.											

### HYDROLOGY

Wetland Hydrology Indicators:					
Primary Indicators (minimum of <u>✓</u> Surface Water (A1) <u>✓</u> High Water Table (A2) <u>✓</u> Saturation (A3)	Wate Aqua Marl	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)			
Water Marks (B1)     Sediment Deposits (B2)     Drift Deposits (B3)     Algal Mat or Crust (B4)     Iron Deposits (B5)     Inundation Visible on Aeria     Sparsely Vegetated Concav	Oxidi Prese Rece Thin al Imagery (B7) Othe	ogen Sulfide Odor (C1) ized Rhizospheres on Living ence of Reduced Iron (C4) nt Iron Reduction in Tilled S Muck Surface (C7) r (Explain in Remarks)		<ul> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>✓ Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>✓ Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>	
Field Observations: Surface Water Present?	Yes 🟒 No	Depth (inches):	1		
Water Table Present?	Yes 🖌 No	Depth (inches):	4	- Wetland Hydrology Present? Yes No	
Saturation Present?	Yes 🖌 No	Depth (inches):	6		
(includes capillary fringe)				-	
Describe Recorded Data (strea	am gauge, monitoring well,	aerial photos, previous insp	pections), if	available:	
Remarks:					
The criterion for wetland hydro	ology is met. A positive ind	ication of wetland hydrolog	y was obser	ved (primary and secondary indicators were present)	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-09\_PFO-1

ree Stratum (Plot size: <u>30 ft</u> )		Dominant		Dominance Test worksh			
		Species?	Status	Number of Dominant Species That		3	(A)
. Tsuga canadensis	50	Yes	FACU	Are OBL, FACW, or FAC:			
. Pinus strobus	20	Yes	FACU	Total Number of Domin Across All Strata:	ant species	5	(B)
					Percent of Dominant Species That		(A/B)
i				Are OBL, FACW, or FAC:			
				Prevalence Index works			_
				Total % Cover		Multiply	
		= Total Cov	er	- OBL species	0	x 1 =	0
apling/Shrub Stratum (Plot size: <u>15 ft</u> )		-		FACW species	15	x 2 =	30
. Rhamnus cathartica	20	Yes	FAC	FAC species	25	x 3 =	75
				- FACU species	70	x 4 =	280
				- UPL species	0	x 5 =	0
		· ·		- Column Totals	110	(A)	385 (B)
				Prevalence In	dex = B/A =	3.5	
		·		Hydrophytic Vegetation	Indicators:		
		·		1- Rapid Test for H	lydrophytic V	'egetatio	n
·		= Total Cov	~	2 - Dominance Tes	st is >50%		
Lauk Chartenne (Distriction - E.ft )	20		er	3 - Prevalence Inde	ex is $\leq 3.0^1$		
<u>lerb Stratum</u> (Plot size: <u>5 ft</u> )	45		EA CIAL	4 - Morphological	Adaptations <sup>1</sup>	(Provide	supporting
. Onoclea sensibilis		Yes	FACW	- data in Remarks or on a	a separate sh	eet)	
. Solidago rugosa	5	Yes	FAC	Problematic Hydro	ophytic Vege	tation¹ (E	xplain)
3		·		<sup>1</sup> Indicators of hydric soi	l and wetlan	d hydrolo	ogy must be
ł		·		present, unless disturbe	ed or probler	natic	
				Definitions of Vegetatio	n Strata:		
5				Tree – Woody plants 3 in			diameter a
7				breast height (DBH), reg	-	•	
3				Sapling/shrub – Woody	•		DBH and
)				greater than or equal to			
0				Herb – All herbaceous (			egardless of
1				size, and woody plants			20.6
2				Woody vines – All wood	y vines great	er than :	3.28 It In
	20	= Total Cov	er	height.			
<u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation	n Present?	es 🖌	No
l				_			
				_			
3.							
4.							
	0	= Total Cov	er	-			

SOIL

Profile Dese Depth	cription: (Describe t Matrix	o the d	epth needed to d Redox			indicator o	or confirm the a	absence of indicate	ors.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Tex	ture	Remarks
0 - 16	10YR 2/1	95	10YR 5/8	5	<u> </u>	M	Silty Clay Loam		
		·							
	Concentration, D = [	Depletio	on, RM = Reduced	l Mat	rix, MS =	Masked S	and Grains. <sup>2</sup> l		e Lining, M = Matrix.
•	Indicators:							Indicators for P	Problematic Hydric Soils <sup>3</sup> :
	l (A1) pipedon (A2) istic (A3)		Polyvalue Be Thin Dark Su Loamy Muck	rface	(S9) <b>(LRF</b>	R, MLRA		Coast Prairi	(A10) (LRR K, L, MLRA 149B) ie Redox (A16) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)	(, _)			/ Peat or Peat (S3) <b>(LRR K, L, R)</b> :e (S7) <b>(LRR K, L)</b>
	d Layers (A5) d Below Dark Surfa	ce (A11	Depleted Ma ) Redox Dark 1						elow Surface (S8) <b>(LRR K, L)</b> urface (S9) <b>(LRR K, L)</b>
	ark Surface (A12) /lucky Mineral (S1)		Depleted Da			)			inese Masses (F12) <b>(LRR K, L, R)</b>
,	Gleyed Matrix (S4)				13 (10)				loodplain Soils (F19) <b>(MLRA 149B)</b> ic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	Redox (S5) d Matrix (S6)							Red Parent	Material (F21)
	irface (S7) <b>(LRR R, M</b>	LRA 14	9B)						w Dark Surface (TF12) ain in Remarks)
Indicators	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e present,	unless disturb		
Restrictive	Layer (if observed):								
	Type:		None	-		Hydric S	oil Present?		Yes 🟒 No
Remarks:	Depth (inches):								<u>.</u>
	ndication of hydric s	soil was	s observed. The c	riterio	on for hy	dric soil is	met.		

Hydrology Photos



Soil Photos



US Army Corps of Engineers

Photo of Sample Plot North



Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k Solar Projec	t	City/County:	Canajoharie, Mo	ontgomery	County	,	Sampling Date:	2021-Nov-19	
Applicant/Owner: S	unEast				State:	NY		Sampling Point: \	W-DJB-10_PEM-1	
Investigator(s): Davi	d Bonomo, Gi	ovanni Pambian	chi	Sec	tion, Towns	ship, Ra	nge: N	A		
Landform (hillslope, te	rrace, etc.):	Depression		Local relief	(concave,	convex,	none):	Concave	Slope (%):	1 to 10
Subregion (LRR or MLF	RA): LRR	L		Lat:	42.874287	79667	Long:	-74.5418202667	Datum: W	GS84
Soil Map Unit Name:	Darien silt lo	am, 3-8 percent	slopes					NWI classific	cation: None	
Are climatic/hydrologic	Are climatic/hydrologic conditions on the site typical for this time of year? Yes 🖌 No (If no, explain in Remarks.)									
Are Vegetation, Are Vegetation,		or Hydrology or Hydrology	0	tly disturbed? problematic?				tances" present? y answers in Rem	Yes 🟒 No harks.)	

#### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No									
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _							
Wetland Hydrology Present?	Yes No	If yes, optional Wetland Site ID:	W-DJB-10							
Remarks: (Explain alternative procedures here or in a separate report)										
Covertype is PEM. Area is wetland, all three wetland parameters are present.										

## HYDROLOGY

Wetland Hydrology Indicators	:				
Primary Indicators (minimum ✓ Surface Water (A1) ✓ High Water Table (A2) — Saturation (A3) Water Marks (B1)		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)			
<ul> <li>States Mains (ET)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aeria</li> <li>Sparsely Vegetated Concave</li> </ul>	Oxidiz Prese Recen Thin N al Imagery (B7) Other	zed Rhizospheres on Living nce of Reduced Iron (C4) nt Iron Reduction in Tilled S Muck Surface (C7) · (Explain in Remarks)		<ul> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>	
Field Observations:					
Surface Water Present?	Yes 🟒 No	Depth (inches):	2	_	
Water Table Present?	Yes 🟒 No	Depth (inches):	8	Wetland Hydrology Present? Yes No	
Saturation Present?	Yes No 🟒	Depth (inches):			
(includes capillary fringe)				-	
Describe Recorded Data (strea	am gauge, monitoring well, a	aerial photos, previous ins	pections), if	available:	
Remarks: The criterion for wetland hydr	rology is met. A positive indi	cation of wetland hydrolog	gy was obser	rved (primary and secondary indicators were present	

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-10\_PEM-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )	Absolute	Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species	That 4	(A)
				Are OBL, FACW, or FAC:		(~)
2.		······································		Total Number of Dominant Sp	becies 4	(B)
3.				Across All Strata:		(D)
		· ·		Percent of Dominant Species	That 10	0 (A/B)
		<u> </u>		Are OBL, FACW, or FAC:	10	<b>0</b> (A/D)
5		·		Prevalence Index worksheet:		
		<u> </u>		Total % Cover of:	<u>Multipl</u>	<u>y By:</u>
7				OBL species 20	) x 1 =	20
	0	= Total Cov	er	FACW species 80	) x 2 =	160
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				FAC species 20	) x3=	60
. Cornus amomum	40	Yes	FACW	FACU species 0	x 4 =	0
2				UPL species 0		0
3.				Column Totals 12		
4.					、 ,	240 (B)
5.				Prevalence Index =	B/A = <u>2</u>	
5.				Hydrophytic Vegetation Indica	ators:	
7.				1- Rapid Test for Hydrop	hytic Vegetatic	n
···	40	= Total Cov	or	2 - Dominance Test is >5	0%	
Louis Church und (Diet einen Efft.)	40	- 10181 COV		3 - Prevalence Index is ≤	≦ 3.0¹	
Herb Stratum (Plot size: <u>5 ft</u> )	40			4 - Morphological Adapt	ations¹ (Provid	e supporting
1. Phalaris arundinacea	40	Yes	FACW	data in Remarks or on a sepa	rate sheet)	
2. Juncus effusus	20	Yes	OBL	Problematic Hydrophyti	c Vegetation <sup>1</sup> (I	Explain)
3. <i>Solidago rugosa</i>	20	Yes	FAC	<sup>1</sup> Indicators of hydric soil and	wetland hydrol	ogy must be
4				present, unless disturbed or	oroblematic	
5				Definitions of Vegetation Stra	ta:	
5.				Tree – Woody plants 3 in. (7.6	cm) or more ir	n diameter a
7				breast height (DBH), regardle	ss of height.	
3.				Sapling/shrub - Woody plants	s less than 3 in.	DBH and
).		·		greater than or equal to 3.28		
10				Herb – All herbaceous (non-w		egardless of
		·		size, and woody plants less th	an 3.28 ft tall.	0
11				Woody vines – All woody vine	s greater than	3.28 ft in
12				height.	2	
	80	= Total Cov	er	Hydrophytic Vegetation Pres	ant? Vas 1	No
<u>Noody Vine Stratum</u> (Plot size: <u>30 ft</u> )				i iyuropiiyuc vegetation Pres		NU
1						
2						
3.						
4.						
	0	= Total Cov	er			

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is  $\leq$  3.00).

SOIL

	ription: (Describe t	o the d	•			indicator	or confirm the a	bsence of indicato	ors.)
Depth (inches)	Matrix	04	Redox			1002	Text	uro	Remarks
0 - 12	Color (moist) 10YR 4/1	<u>%</u> 95	Color (moist) 7.5YR 4/6	<u>%</u> 5	Type <sup>1</sup> C	Loc <sup>2</sup> M	Silty Cla		kemarks
		·							
		·		- <u> </u>					
		·							
<sup>1</sup> Type: C = C Hydric Soil I	oncentration, D = [	Depletio	on, RM = Reduced	l Mat	rix, MS =	Masked	Sand Grains. <sup>2</sup> L		Lining, M = Matrix. roblematic Hydric Soils³:
Histosol	(A1) Dipedon (A2)		Polyvalue Be Thin Dark Su Loamy Muck	rface	(S9) <b>(LRF</b>	R R, MLRA	149B)	2 cm Muck (/ Coast Prairie	A10) <b>(LRR K, L, MLRA 149B)</b> e Redox (A16) <b>(LRR K, L, R)</b> Peat or Peat (S3) <b>(LRR K, L, R)</b>
Stratifie	en Sulfide (A4) d Layers (A5) d Below Dark Surfa	ce (A11		itrix ( Surfa	F3) ce (F6)			Dark Surface	
Sandy M Sandy G	ark Surface (A12) lucky Mineral (S1) ileyed Matrix (S4)		Depleted Da Redox Depre			)		Iron-Mangar Piedmont Flo	nese (BS) (EIRT, 2, nese Masses (F12) (LRR K, L, R) oodplain Soils (F19) (MLRA 149B) c (TA6) (MLRA 144A, 145, 149B)
Stripped	edox (S5) l Matrix (S6) rface (S7) <b>(LRR R, M</b>	LRA 14	9B)					Red Parent N	Material (F21) / Dark Surface (TF12)
	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e presen	t, unless disturbe	•	
	<b>.ayer (if observed):</b> Type:		None			Hydric	Soil Present?		Yes 🖌 No
	Depth (inches):					-			
Remarks: A positive ir	ndication of hydric s	soil was	s observed. The c	riterio	on for hy	dric soil i	s met.		

Hydrology Photos



Soil Photos

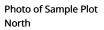




Photo of Sample Plot East Photo of Sample Plot South



Photo of Sample Plot West

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k Solar Projec	t Cit	y/County:	Canajoharie, I	Montgomery	County	Sampling Date:	2021-Nov-19	
Applicant/Owner: S	unEast				State:	NY	Sampling Point: V	V-DJB-10_PSS-1	
Investigator(s): Davi	d Bonomo, Gi	ovanni Pambianchi		Se	ection, Towns	hip, Range: N	A		
Landform (hillslope, te	rrace, etc.):	Тое		Local reli	ef (concave, c	onvex, none):	Concave	Slope (%): 1 to 1	10
Subregion (LRR or MLF	RA): LRR	L		La	t: 42.877357	5 Long:	-74.5378381	Datum: WGS84	
Soil Map Unit Name:	llion silt loar	n, 3-8 percent slope	es				NWI classific	ation: None	
Are climatic/hydrologic	conditions o	n the site typical for	this time	of year?	Yes 🖌	No (If no	o, explain in Remar	ˈks.)	
Are Vegetation,	Soil,	or Hydrology	significant	tly disturbed?	Are "No	ormal Circums	tances" present?	Yes 🟒 No	
Are Vegetation,	Soil,	or Hydrology	naturally	problematic?	(If need	ed, explain ar	y answers in Rema	arks.)	

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No									
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🟒 No _							
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-DJB-10							
Remarks: (Explain alternative procedures here or in a separate report)										
Covertype is PSS. Area is wetland, all three wetland parameters are present.										

## HYDROLOGY

Wetland Hydrology Indicators:						
Primary Indicators (minimum of or	ne is required; check all t	<u>that apply)</u>		Secondary Indicators (minimum of two required)		
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial Image Sparsely Vegetated Concave Surface</li> </ul>		<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>				
Field Observations:						
Surface Water Present?	Yes No 🟒	Depth (inches):		_		
Water Table Present?	Yes 🟒 No	Depth (inches):	6	Wetland Hydrology Present? Yes No		
Saturation Present?	Yes 🟒 No	Depth (inches):	0	_		
(includes capillary fringe)						
Describe Recorded Data (stream g Remarks: The criterion for wetland hydrolog				available: ved (primary and secondary indicators were present).		

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-10\_PSS-1

<u>Tree Stratum</u> (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test works		2	<i>(</i> 1)
. Quercus alba	20	Yes	FACU	Are OBL, FACW, or FAC	:	3	(A)
·				Total Number of Domi Across All Strata:	nant Species	4	(B)
8 		·		Percent of Dominant S Are OBL, FACW, or FAC		75	(A/B)
				Prevalence Index work			
				Total % Cover		Multiply	Bv:
7				OBL species	20	x 1 =	20
	20	= Total Cov	er	FACW species	0	x 2 =	0
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )				· ·		-	
. Rhamnus cathartica	40	Yes	FAC	FAC species	115	x 3 = _	345
2. Cornus racemosa	25	Yes	FAC	FACU species	20	x 4 =	80
3.				UPL species	0	x 5 =	0
1				Column Totals	155	(A)	445 (B)
				Prevalence l	ndex = B/A =	2.9	
				Hydrophytic Vegetatio	n Indicators:		
				1- Rapid Test for		egetation	
·				2 - Dominance Te		egetation	
	65	= Total Cov	er	2 = Dominance re			
<u>Herb Stratum</u> (Plot size: <u>5 ft</u> )						(Dues viele	
1. Solidago rugosa	50	Yes	FAC	4 - Morphologica		-	supporting
2. Carex vesicaria	10	No	OBL	data in Remarks or on	•		
3. <i>Galium palustre</i>	10	No	OBL	Problematic Hyd			
1.			ODE	<sup>1</sup> Indicators of hydric so			gy must be
				present, unless disturb		natic	
5				Definitions of Vegetati	on Strata:		
5				Tree – Woody plants 3			diameter a
7				breast height (DBH), re	egardless of he	eight.	
3				Sapling/shrub - Wood	y plants less tł	nan 3 in. D	OBH and
Э.				greater than or equal t	to 3.28 ft (1 m)	) tall.	
10.		· · · · · · · · · · · · · · · · · · ·		Herb – All herbaceous	(non-woody)	olants, reg	gardless of
11.				size, and woody plants	less than 3.2	8 ft tall.	
12.				Woody vines - All woo	dy vines great	er than 3	.28 ft in
12				height.			
	/0	= Total Cov	er	Hydrophytic Vegetatio	n Present? V	ίρς <u>/</u> Ν	lo
<u>Noody Vine Stratum</u> (Plot size: <u>30 ft</u> )						CJ <u>v</u> r	<u> </u>
l							
2							
3							
4.		·					
	0	= Total Cov	er				
	0	- 10tai COV	CI				

A positive indication of hydrophytic vegetation was observed (>50% of dominant species indexed as OBL, FACW, or FAC). A positive indication of hydrophytic vegetation was observed (Prevalence Index is  $\leq$  3.00).

SOIL

inches) Color (moist)		Redox	Feat	ures		rm the absence of indica	
	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 16 10YR 2/1	95	7.5YR 5/8	5	C		Silty Clay Loam	
					·		
					· ·		
·							
unal C - Concentration D - I				W MC -	Macked Cand Cry	vinc 21 ocations DL - Do	ro Liping M - Matrix
ype: C = Concentration, D = [ /dric Soil Indicators:	repletion	i, Rivi – Reduced	ıvidü	ix, ivis =	waskeu sanu Gra		re Lining, M = Matrix. Problematic Hydric Soils <sup>3</sup> :
_ Histosol (A1)		Polyvalue Be	low S	urface (S	8) (LRR R, MLRA 1	400)	k (A10) (LRR K, L, MLRA 149B)
_ Histic Epipedon (A2)	_	Thin Dark Su	rface	(S9) <b>(LRR</b>	R, MLRA 149B)		rie Redox (A16) <b>(LRR K, L, R)</b>
Black Histic (A3)	-	Loamy Muck	-		(LRR K, L)		ky Peat or Peat (S3) <b>(LRR K, L, R)</b>
_ Hydrogen Sulfide (A4) _ Stratified Layers (A5)		Loamy Gleye Depleted Ma				Dark Surfa	ace (S7) <b>(LRR K, L)</b>
_ Depleted Below Dark Surfa		•				•	Below Surface (S8) (LRR K, L)
Thick Dark Surface (A12)	-	Depleted Da					Surface (S9) (LRR K, L)
_Sandy Mucky Mineral (S1)	-	Redox Depre	ession	s (F8)		、	anese Masses (F12) <b>(LRR K, L, R)</b> Floodplain Soils (F19) <b>(MLRA 149B)</b>
_ Sandy Gleyed Matrix (S4)							dic (TA6) (MLRA 144A, 145, 149B)
_ Sandy Redox (S5)							it Material (F21)
_ Stripped Matrix (S6)						Very Shall	ow Dark Surface (TF12)
_ Dark Surface (S7) <b>(LRR R, M</b>	LKA 1491	<b>)</b>				Other (Exp	olain in Remarks)
ndicators of hydrophytic vege	etation a	nd wetland hyd	rology	/ must be	e present, unless	disturbed or problemat	ic.
estrictive Layer (if observed):						_	
Туре:	. <u> </u>	None	-		Hydric Soil Pres	ent?	Yes 🟒 No
Depth (inches):							
positive indication of hydric :	soil was c	bbserved. The c	riteric	n for hyc	dric soil is met.		

Hydrology Photos



Soil Photos



Photo of Sample Plot North



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k Solar Projec	t (	City/County:	Canajoharie, Mo	ontgomery County	/	Sampling Date: 2	021-Nov-19	
Applicant/Owner: S	unEast				State: NY		Sampling Point: W-I	DJB-10_UPL-1	
Investigator(s): Davi	d Bonomo, Gi	ovanni Pambianc	:hi	Sect	ion, Township, Ra	nge: N/	4		
Landform (hillslope, te	rrace, etc.):	Hillslope		Local relief	(concave, convex,	none):	Convex	Slope (%):	1 to 10
Subregion (LRR or MLF	RA): LRR	L		Lat:	42.8745272833	Long:	-74.5423024	Datum: WG	iS84
Soil Map Unit Name:	Darien silt lo	am, 3-8 percent s	slopes				NWI classificati	ion: None	
Are climatic/hydrologic	c conditions o	n the site typical f	for this time	of year?	Yes 🟒 No 🔄	(If no	, explain in Remarks	5.)	
Are Vegetation, Are Vegetation,	Soil, Soil,	or Hydrology or Hydrology	_ 0	,			ances" present? y answers in Remark	Yes 🟒 No <s.)< td=""><td></td></s.)<>	

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes No 🟒									
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes No 🟒							
Wetland Hydrology Present?	Yes No _	lf yes, optional Wetland Site ID:								
Remarks: (Explain alternative procedures here or in a separate report)										
Covertype is UPL. Area is upland, not all three wetland parameters are present.										

#### HYDROLOGY

Wetland Hydrology Indicators:						
Primary Indicators (minimum o	f one is required; check all	<u>that apply)</u>	Secondary Indicators (minimum of two required)			
<ul> <li>Surface Water (A1)</li> <li>High Water Table (A2)</li> <li>Saturation (A3)</li> <li>Water Marks (B1)</li> <li>Sediment Deposits (B2)</li> <li>Drift Deposits (B3)</li> <li>Algal Mat or Crust (B4)</li> <li>Iron Deposits (B5)</li> <li>Inundation Visible on Aerial</li> <li>Sparsely Vegetated Concave</li> </ul>		<ul> <li>Surface Soil Cracks (B6)</li> <li>Drainage Patterns (B10)</li> <li>Moss Trim Lines (B16)</li> <li>Dry-Season Water Table (C2)</li> <li>Crayfish Burrows (C8)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Stunted or Stressed Plants (D1)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>Microtopographic Relief (D4)</li> <li>FAC-Neutral Test (D5)</li> </ul>				
Field Observations: Surface Water Present? Water Table Present?	Yes No 🟒	Depth (inches):	 Wetland Hydrology Present? Yes No			
Saturation Present? (includes capillary fringe)	Yes No _	Depth (inches):				
	n gauge, monitoring well, a	ierial photos, previous inspections), if	available:			
Remarks: The criterion for wetland hydro	logy is not met. No positive	e indication of wetland hydrology was	observed.			

VEGETATION -- Use scientific names of plants.

Sampling Point: W-DJB-10\_UPL-1

<u>Free Stratum</u> (Plot size: <u>30 ft</u> )		<b>Dominant</b> Species? Yes	Indicator Status FACU	Dominance Test worksheet: Number of Dominant Species That	0	(A)
. Fraxinus americana	60			Are OBL, FACW, or FAC:		(A)
. Carya ovata	10	No	FACU	Total Number of Dominant Species	3	(B)
Pinus strobus	10	No	FACU	Across All Strata:		
				Percent of Dominant Species That	0	(A/B)
				Are OBL, FACW, or FAC:		<u> </u>
				Prevalence Index worksheet:		-
				- <u>Total % Cover of:</u> - OBL species 0	Multiply	
	80	= Total Cov	er		x 1 =	0
apling/Shrub Stratum (Plot size: <u>15 ft</u> )		-		FACW species 0	x 2 =	0
. Lonicera morrowii	40	Yes	FACU	FAC species 0	x 3 =	0
				FACU species 130	x 4 =	520
				- UPL species 0	x 5 =	0
·		· ·		- Column Totals 130	(A)	520 (B
		· ·		Prevalence Index = B/A =	4	
·		·		Hydrophytic Vegetation Indicators:		
		·		1- Rapid Test for Hydrophytic	Vegetatior	n
·	40	= Total Cov	or	2 - Dominance Test is > 50%		
larh Stratum (Diat cize) Eft	40	- 10tai COV	EI	3 - Prevalence Index is $\leq 3.0^1$		
lerb Stratum (Plot size: <u>5 ft</u> )	10	Yes	FACU	4 - Morphological Adaptations	<sup>1</sup> (Provide	supportir
. Fragaria virginiana	10	162	FACU	- data in Remarks or on a separate s	heet)	
		·		Problematic Hydrophytic Vege		
3		<u> </u>		<ul> <li><sup>1</sup>Indicators of hydric soil and wetlar</li> </ul>	-	gy must b
ŀ		·		present, unless disturbed or proble	ematic	
		·		Definitions of Vegetation Strata:		
				Tree – Woody plants 3 in. (7.6 cm) c		diameter
		·		breast height (DBH), regardless of h	-	
				Sapling/shrub – Woody plants less		JBH and
				greater than or equal to 3.28 ft (1 n		
0		·		Herb – All herbaceous (non-woody) size, and woody plants less than 3.		gardiess c
1				Woody vines – All woody vines grea		28 ft in
2		<u> </u>		height.		.201111
	10	= Total Cov	er		\/ N	- <b>/</b>
<u>Voody Vine Stratum</u> (Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Present?	res r	NO <u>/</u>
				_		
				_		
·				_		
				_		
	0	= Total Cov	er			

SOIL

	cription: (Describe	to the d	lepth needed to c	locum	ent the i	indicator	or confirm the a	bsence of indicate	ors.)
Depth	Matrix		Redo	x Feat	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Text	ure	Remarks
0 - 10	10YR 3/3	100					Silty Cla	y Loam	
10 - 16	10YR 4/2	75	10YR 5/8	25	С	Μ	Clay L	oam	
				·					-
				·					
······									
				·					
	Concentration, D =	Depleti	on, RM = Reduced	d Mati	'ix, MS =	Masked	Sand Grains. <sup>2</sup> L		e Lining, M = Matrix.
-	Indicators:							Indicators for P	roblematic Hydric Soils <sup>3</sup> :
Histoso			Polyvalue Be					2 cm Muck (	(A10) <b>(LRR K, L, MLRA 149B)</b>
	pipedon (A2)		Thin Dark Su					Coast Prairie	e Redox (A16) <b>(LRR K, L, R)</b>
	listic (A3)		Loamy Muck	-		(LRR K, L	)	5 cm Mucky	Peat or Peat (S3) <b>(LRR K, L, R)</b>
	gen Sulfide (A4) ed Layers (A5)		Loamy Gleye Depleted Ma					Dark Surfac	
	ed Below Dark Surf	aco (A1	•					Polyvalue Be	elow Surface (S8) <b>(LRR K, L)</b>
	ark Surface (A12)		Depleted Da			1			urface (S9) <b>(LRR K, L)</b>
	Mucky Mineral (S1)		Redox Depre			,			nese Masses (F12) <b>(LRR K, L, R)</b>
	Gleyed Matrix (S4)			235101	15 (1 0)			Piedmont Fl	oodplain Soils (F19) <b>(MLRA 149B)</b>
	Redox (S5)							Mesic Spodi	c (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	ed Matrix (S6)							Red Parent	
	urface (S7) <b>(LRR R,</b> I								v Dark Surface (TF12)
			(50)					Other (Expla	ain in Remarks)
<sup>3</sup> Indicators	of hydrophytic veg	getation	and wetland hyd	rology	/ must b	e presen	t, unless disturbe	ed or problematic.	
Restrictive	Layer (if observed)	):				1			
	Туре:		None			Hydric	Soil Present?		Yes 🟒 No
	Depth (inches):			-					
Remarks:									
	indication of hydrid	soil wa	s observed. The c	riterio	on for hy	dric soil i	s met.		

Soil Photos



Photo of Sample Plot North



Northcentral and Northeast Region -- Version 2.0 Adapted by TRC

Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Flat Cree	k Solar Projec	t	City/County:	Canajoharie, Mo	ontgomery Count	у	Sampling Date:	2021-Nov-19	
Applicant/Owner: S	unEast				State: NY		Sampling Point: <u>W</u>	/-DJB-11_PFO-1	
Investigator(s): Davi	id Bonomo, Gi	ovanni Pambian	ichi	Sect	tion, Township, Ra	ange: N	4		
Landform (hillslope, te	errace, etc.):	Swamp		Local relief	(concave, convex	, none):	Concave	Slope (%):	1 to 10
Subregion (LRR or MLF	RA): LRR	L		Lat:	42.8759987359	Long:	-74.5352583542	Datum: WO	GS84
Soil Map Unit Name:	Darien silt lo	am, 3-8 percent	slopes				NWI classifica	ation: None	
Are climatic/hydrologic	c conditions o	n the site typical	for this time	of year?	Yes 🟒 No \_	(If no	, explain in Remarl	ks.)	
Are Vegetation, Are Vegetation,	Soil, Soil,	or Hydrology or Hydrology	0	tly disturbed? problematic?			ances" present? y answers in Rema	Yes 🟒 No _ rks.)	

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes 🟒 No		
Hydric Soil Present?	Yes 🟒 No	Is the Sampled Area within a Wetland?	Yes 🧹 No
Wetland Hydrology Present?	Yes 🟒 No	If yes, optional Wetland Site ID:	W-DJB-11
Remarks: (Explain alternative procedures he	re or in a separate report	)	
Covertype is PFO. Area is wetland, all three v	vetland parameters are p	resent.	

## HYDROLOGY

Primary Indicators (minimum c	f one is required; check a	Secondary Indicators (minimum of two required				
				Stunted or Stressed Plants (D1)		
Field Observations:			_			
Surface Water Present?	Yes 🟒 No	Depth (inches):	1	_		
Water Table Present?	Yes 🟒 No	Depth (inches):	2	_Wetland Hydrology Present? Yes No		
Saturation Present?	Yes 🟒 No	Depth (inches):	0			
(includes capillary fringe)				_		
Describe Recorded Data (strea	m gauge, monitoring wel	l, aerial photos, previous insp	pections), if	available:		
Remarks:						
The criterian for wetland by dre		dia atiana a Constituta di Istralia da m		rved (primary and secondary indicators were presen		

# VEGETATION -- Use scientific names of plants.

## Sampling Point: W-DJB-11\_PFO-1

ree Stratum (Plot size: <u>30 ft</u> )		Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species Tha	t 4	(A)	
. Tsuga canadensis	50	Yes	FACU	Are OBL, FACW, or FAC:	/, or FAC:		
. Betula alleghaniensis	20	Yes	FAC	Total Number of Dominant Specie	s 6	(B)	
Acer rubrum	10	No	FAC	Across All Strata:		(-)	
				Percent of Dominant Species That	66.7	(A/B)	
				Are OBL, FACW, or FAC:	-		
				Prevalence Index worksheet:		<b>D</b>	
				- <u>Total % Cover of:</u>	Multiply		
	80	= Total Cov	er	- OBL species 5	_ x1= _	5	
apling/Shrub Stratum (Plot size: <u>15 ft</u> )				FACW species 15	_ x 2 = _	30	
. Rhamnus cathartica	10	Yes	FAC	FAC species 40	_ x3= _	120	
. Tsuga canadensis	10	Yes	FACU	FACU species 60	_ ×4=	240	
				UPL species 0	_ x 5 = _	0	
				- Column Totals 120	(A)	395 (B	
				Prevalence Index = B/A	=3.3		
		<u> </u>		Hydrophytic Vegetation Indicators	:		
				1- Rapid Test for Hydrophytic	Vegetation	I	
·		= Total Cov	or	2 - Dominance Test is >50%			
and Streeture (Distained - Eft. )	20		ei	3 - Prevalence Index is $\leq 3.0^{\circ}$			
l <u>erb Stratum</u> (Plot size: <u>5 ft</u> ) . <i>Onoclea sensibilis</i>	15	Vec		4 - Morphological Adaptation	s¹ (Provide	supportin	
	15	Yes	FACW	- data in Remarks or on a separate	sheet)		
. Chrysosplenium americanum	5	Yes	OBL	<ul> <li>Problematic Hydrophytic Veg</li> </ul>	getation <sup>1</sup> (Ex	(plain)	
·				Indicators of hydric soil and wetla	nd hydrolo	gy must b	
		·		present, unless disturbed or prob	ematic		
				Definitions of Vegetation Strata:			
				Tree – Woody plants 3 in. (7.6 cm)	or more in (	diameter a	
				breast height (DBH), regardless of	-		
				Sapling/shrub – Woody plants less		OBH and	
				greater than or equal to 3.28 ft (1			
0				Herb – All herbaceous (non-wood		gardless o	
1				size, and woody plants less than 3			
2.				Woody vines – All woody vines gre	ater than 3	.28 ft in	
	20	= Total Cov	er	height.			
<u>Voody Vine Stratum (</u> Plot size: <u>30 ft</u> )				Hydrophytic Vegetation Present?	Yes 🟒 N	lo	
·							
		·		-			
				-			
·		·		-			
		= Total Cov	er	-			
	0						

SOIL

Profile Dese Depth	cription: (Describe t Matrix	o the d	epth needed to d Redox			indicator o	or confirm the a	absence of indicate	ors.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Tex	ture	Remarks
0 - 16	10YR 2/1	95	10YR 5/8	5	<u> </u>	M		ay Loam	
		·							
	Concentration, D = [	Depletio	on, RM = Reduced	l Mat	rix, MS =	Masked S	and Grains. <sup>2</sup> l		e Lining, M = Matrix.
•	Indicators:							Indicators for P	Problematic Hydric Soils <sup>3</sup> :
	l (A1) pipedon (A2) istic (A3)		Polyvalue Be Thin Dark Su Loamy Muck	rface	(S9) <b>(LRF</b>	R, MLRA		Coast Prairi	(A10) (LRR K, L, MLRA 149B) ie Redox (A16) (LRR K, L, R)
Hydrog	en Sulfide (A4)		Loamy Gleye	d Ma	trix (F2)	(, _)			/ Peat or Peat (S3) <b>(LRR K, L, R)</b> :e (S7) <b>(LRR K, L)</b>
	d Layers (A5) d Below Dark Surfa	ce (A11	Depleted Ma ) Redox Dark 1						elow Surface (S8) <b>(LRR K, L)</b> urface (S9) <b>(LRR K, L)</b>
	ark Surface (A12) /lucky Mineral (S1)		Depleted Da			)			inese Masses (F12) <b>(LRR K, L, R)</b>
,	Gleyed Matrix (S4)				13 (10)				loodplain Soils (F19) <b>(MLRA 149B)</b> ic (TA6) <b>(MLRA 144A, 145, 149B)</b>
-	Redox (S5) d Matrix (S6)							Red Parent	Material (F21)
	irface (S7) <b>(LRR R, M</b>	LRA 14	9B)						w Dark Surface (TF12) ain in Remarks)
Indicators	of hydrophytic vege	etation	and wetland hyd	rolog	y must b	e present,	unless disturb		
Restrictive	Layer (if observed):								
	Type:		None	-		Hydric S	oil Present?		Yes 🟒 No
Remarks:	Depth (inches):								<u>.</u>
	ndication of hydric s	soil was	s observed. The c	riterio	on for hy	dric soil is	met.		

Hydrology Photos



Photo of Sample Plot North Photo of Sample Plot East



Photo of Sample Plot South Photo of Sample Plot West

