

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/10/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W407-PFO
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.5941 Long: -74.6565 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: PFO
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation X, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: <u>X</u> No: _____ Hydric Soil Present? Yes: <u>X</u> No: _____ Wetland Hydrology Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>W407</u>
Remarks: (Explain alternative procedures here or in a separate report.) Problematic - FACU species that commonly dominate wetlands.	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one required: check all that apply) <u>X</u> Surface Water (A1) <u>X</u> Water-Stained Leaves (B9) <u>X</u> High Water Table (A2) <u>X</u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) _____ Marl Deposits (B15) <u>X</u> 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) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) <u>X</u> Sparsely Vegetated Concave Surface (B8)	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) <u>X</u> Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>12</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W407-PFO

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:																																																
1. <u><i>Tsuga canadensis</i></u>	40	Y	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)																																																
2. <u><i>Acer rubrum</i></u>	10	Y	FAC																																																	
3. _____																																																				
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6. _____																																																				
7. _____																																																				
	50	=Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: center;">Multiply by:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;">0</td> <td>x 1 =</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">10</td> <td>x 3 =</td> <td style="text-align: center;">30</td> <td></td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">40</td> <td>x 4 =</td> <td style="text-align: center;">160</td> <td></td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">50</td> <td>(A)</td> <td style="text-align: center;">190</td> <td>(B)</td> <td></td> </tr> <tr> <td colspan="3">Prevalence Index = B/A=</td> <td style="text-align: center;">3.80</td> <td colspan="2"></td> </tr> </tbody> </table>	Total % Cover of:		Multiply by:				OBL species	0	x 1 =	0			FACW species	0	x 2 =	0			FAC species	10	x 3 =	30			FACU species	40	x 4 =	160			UPL species	0	x 5 =	0			Column Totals:	50	(A)	190	(B)		Prevalence Index = B/A=			3.80		
Total % Cover of:		Multiply by:																																																		
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6. _____																																																				
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	0	=Total Cover		Hydrophytic Vegetation Indicators: ___ 1 - Rapid test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u>X</u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																																
Herb Stratum: (Plot size: <u>5</u>)																																																				
1. _____																																																				
2. _____																																																				
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Hydrophytic Vegetation Present?																																																				
Yes <u>X</u> No ___																																																				
Remarks: (Include photo numbers here or on a separate sheet.)																																																				

SOIL

Sampling Point: W407-PFO

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/10/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W409-UPL
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.6012 Long: -74.6594 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: No
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: _____ No: <u>X</u> Hydric Soil Present? Yes: _____ No: <u>X</u> Wetland Hydrology Present? Yes: _____ No: <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>W409</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one required: check all that apply) ☐ Surface Water (A1) ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) ☐ 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) ☐ Other (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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W409-UPL

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <i>Fagus grandifolia</i>	55	Y	FACU	
2. <i>Picea rubens</i>	18	Y	FACU	
3. <i>Acer rubrum</i>	12	N	FAC	
4.				
5.				
6.				
7.				
	85	=Total Cover		
Sapling/Shrub Stratum: (Plot size: <u>15</u>)				
1. <i>Fagus grandifolia</i>	30	Y	FACU	
2.				
3.				
4.				
5.				
6.				
7.				
	30	=Total Cover		
Herb Stratum: (Plot size: <u>5</u>)				
1. <i>Dennstaedtia punctilobula</i>	20	Y	UPL	
2. <i>Fagus grandifolia</i>	15	Y	FACU	
3. <i>Dendrolycopodium obscurum</i>	10	N	FACU	
4. <i>Betula lenta</i>	6	N	FACU	
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	51	=Total Cover		
Woody Vine Stratum: (Plot size: <u>30</u>)				
1.				
2.				
3.				
4.				
	0	=Total Cover		

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

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>0</u>	x 2 = <u>0</u>
FAC species <u>12</u>	x 3 = <u>36</u>
FACU species <u>134</u>	x 4 = <u>536</u>
UPL species <u>20</u>	x 5 = <u>100</u>
Column Totals: <u>166</u> (A)	<u>672</u> (B)
Prevalence Index = B/A= <u>4.05</u>	

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid test for Hydrophytic Vegetation
- ☐ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is $\leq 3.0^1$
- ☐ 4 - Morphological Adaptations¹ (Profice supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four Vegetation Strata:

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Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation

Present? Yes ☐ No ☒ X

SOIL

Sampling Point: W409-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

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Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present?	Yes	No	X
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Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/11/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W410-PFO
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SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes: <u>X</u> No: _____ Hydric Soil Present? Yes: <u>X</u> No: _____ Wetland Hydrology Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>W410</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) _____ 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)	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? Yes <u>X</u> No _____ Depth (inches): <u>6</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W410-PFO

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer rubrum</u>	60	Y	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
2. <u>Betula alleghaniensis</u>	10	N	FAC																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
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Prevalence Index = B/A= <u>2.55</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <u>Vaccinium corymbosum</u>	60	Y	FACW																	
2. <u>Betula alleghaniensis</u>	7	N	FAC																	
3. <u>Pinus strobus</u>	5	N	FACU																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	72	=Total Cover		Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> X </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum: (Plot size: <u>5</u>)																				
1. <u>Iris prismatica</u>	6	Y	OBL																	
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	6	=Total Cover		Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
	0	=Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W410-PFO

[illegible]

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/11/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W410-UPL
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Hill Local relief (concave, convex, none): Convex Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.5931 Long: -74.6553 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: _____ No: <u>X</u> Hydric Soil Present? Yes: _____ No: <u>X</u> Wetland Hydrology Present? Yes: _____ No: <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>W410</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one required: check all that apply) ☐ Surface Water (A1) ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) ☐ 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) ☐ Other (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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W410-UPL

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer saccharum</u>	45	Y	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																
2. <u>Fagus grandifolia</u>	35	Y	FACU																	
3. <u>Tsuga canadensis</u>	12	N	FACU																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	92	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>149</u></td> <td>x 4 = <u>596</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>149</u> (A)</td> <td><u>596</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A= <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>149</u>	x 4 = <u>596</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>149</u> (A)	<u>596</u> (B)	Prevalence Index = B/A= <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>149</u>	x 4 = <u>596</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>149</u> (A)	<u>596</u> (B)																			
Prevalence Index = B/A= <u>4.00</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <u>Fagus grandifolia</u>	45	Y	FACU																	
2. <u>Tsuga canadensis</u>	5	N	FACU																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	50	=Total Cover		Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum: (Plot size: <u>5</u>)																				
1. <u>Dendrolycopodium obscurum</u>	3	Y	FACU																	
2. <u>Acer saccharum</u>	2	Y	FACU																	
3. <u>Fagus grandifolia</u>	2	Y	FACU																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	7	=Total Cover		Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
	0	=Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W410-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/11/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W411-PEM
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.5953 Long: -74.6545 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: PEM
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: <u>X</u> No: _____ Hydric Soil Present? Yes: <u>X</u> No: _____ Wetland Hydrology Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>W411</u>
Remarks: (Explain alternative procedures here or in a separate report.) Potential vernal pool	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one required: check all that apply) <table style="width: 100%;"> <tr> <td><u>X</u> Surface Water (A1)</td> <td><u>X</u> Water-Stained Leaves (B9)</td> </tr> <tr> <td><u>X</u> High Water Table (A2)</td> <td><u>X</u> Aquatic Fauna (B13)</td> </tr> <tr> <td><u>X</u> Saturation (A3)</td> <td>___ Marl Deposits (B15)</td> </tr> <tr> <td><u>X</u> Water Marks (B1)</td> <td>___ Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td>___ Sediment Deposits (B2)</td> <td>___ Oxidized Rhizospheres on Living Roots (C3)</td> </tr> <tr> <td>___ Drift Deposits (B3)</td> <td>___ Presence of Reduced Iron (C4)</td> </tr> <tr> <td>___ Algal Mat or Crust (B4)</td> <td>___ Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td>___ Iron Deposits (B5)</td> <td>___ Thin Muck Surface (C7)</td> </tr> <tr> <td>___ Inundation Visible on Aerial Imagery (B7)</td> <td>___ Other (Explain in Remarks)</td> </tr> <tr> <td><u>X</u> Sparsely Vegetated Concave Surface (B8)</td> <td></td> </tr> </table>	<u>X</u> Surface Water (A1)	<u>X</u> Water-Stained Leaves (B9)	<u>X</u> High Water Table (A2)	<u>X</u> Aquatic Fauna (B13)	<u>X</u> Saturation (A3)	___ Marl Deposits (B15)	<u>X</u> 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)	___ Iron Deposits (B5)	___ Thin Muck Surface (C7)	___ Inundation Visible on Aerial Imagery (B7)	___ Other (Explain in Remarks)	<u>X</u> Sparsely Vegetated Concave Surface (B8)		<u>Secondary indicators (minimum of two required)</u> ___ 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) <u>X</u> Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
<u>X</u> Surface Water (A1)	<u>X</u> Water-Stained Leaves (B9)																				
<u>X</u> High Water Table (A2)	<u>X</u> Aquatic Fauna (B13)																				
<u>X</u> Saturation (A3)	___ Marl Deposits (B15)																				
<u>X</u> Water Marks (B1)	___ Hydrogen Sulfide Odor (C1)																				
___ Sediment Deposits (B2)	___ Oxidized Rhizospheres on Living Roots (C3)																				
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___ Inundation Visible on Aerial Imagery (B7)	___ Other (Explain in Remarks)																				
<u>X</u> Sparsely Vegetated Concave Surface (B8)																					
Field Observations: Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>8</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____																				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																					
Remarks:																					

VEGETATION - Use scientific names of plants.

Sampling Point: W411-PEM

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																									
1. <i>Betula alleghaniensis</i>	15	Y	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B)																																								
2. <i>Acer rubrum</i>	10	Y	FAC																																									
3.																																												
4.																																												
5.																																												
6.																																												
7.																																												
	25	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <thead> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply by:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;">30</td> <td>x 1 =</td> <td style="text-align: center;">30</td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">27</td> <td>x 3 =</td> <td style="text-align: center;">81</td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">23</td> <td>x 4 =</td> <td style="text-align: center;">92</td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">80</td> <td>(A)</td> <td style="text-align: center;">203</td> <td>(B)</td> </tr> <tr> <td colspan="3">Prevalence Index = B/A=</td> <td style="text-align: center;">2.54</td> <td></td> </tr> </tbody> </table>	Total % Cover of:		Multiply by:			OBL species	30	x 1 =	30		FACW species	0	x 2 =	0		FAC species	27	x 3 =	81		FACU species	23	x 4 =	92		UPL species	0	x 5 =	0		Column Totals:	80	(A)	203	(B)	Prevalence Index = B/A=			2.54	
Total % Cover of:		Multiply by:																																										
OBL species	30	x 1 =	30																																									
FACW species	0	x 2 =	0																																									
FAC species	27	x 3 =	81																																									
FACU species	23	x 4 =	92																																									
UPL species	0	x 5 =	0																																									
Column Totals:	80	(A)	203	(B)																																								
Prevalence Index = B/A=			2.54																																									
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																																												
1. <i>Tsuga canadensis</i>	5	Y	FACU																																									
2. <i>Betula alleghaniensis</i>	2	Y	FAC																																									
3.																																												
4.																																												
5.																																												
6.																																												
7.																																												
	7	=Total Cover		Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> X </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																								
Herb Stratum: (Plot size: <u>5</u>)																																												
1. <i>Iris prismatica</i>	30	Y	OBL																																									
2. <i>Marrubium vulgare</i>	18	Y	FACU																																									
3.																																												
4.																																												
5.																																												
6.																																												
7.																																												
8.																																												
9.																																												
10.																																												
11.																																												
12.																																												
	48	=Total Cover		Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																																								
Woody Vine Stratum: (Plot size: <u>30</u>)																																												
1.																																												
2.																																												
3.																																												
4.																																												
	0	=Total Cover																																										
Remarks: (Include photo numbers here or on a separate sheet.)																																												

SOIL

Sampling Point: W411-PEM

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☒ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/11/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W411-UPL
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.5952 Long: -74.6547 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: No
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: _____ No: <u>X</u> Hydric Soil Present? Yes: _____ No: <u>X</u> Wetland Hydrology Present? Yes: _____ No: <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>W411</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one required: check all that apply) <table style="width: 100%;"> <tr> <td>☐ Surface Water (A1)</td> <td>☐ Water-Stained Leaves (B9)</td> </tr> <tr> <td>☐ High Water Table (A2)</td> <td>☐ Aquatic Fauna (B13)</td> </tr> <tr> <td>☐ Saturation (A3)</td> <td>☐ Marl Deposits (B15)</td> </tr> <tr> <td>☐ Water Marks (B1)</td> <td>☐ Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td>☐ Sediment Deposits (B2)</td> <td>☐ Oxidized Rhizospheres on Living Roots (C3)</td> </tr> <tr> <td>☐ Drift Deposits (B3)</td> <td>☐ Presence of Reduced Iron (C4)</td> </tr> <tr> <td>☐ Algal Mat or Crust (B4)</td> <td>☐ Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td>☐ Iron Deposits (B5)</td> <td>☐ Thin Muck Surface (C7)</td> </tr> <tr> <td>☐ Inundation Visible on Aerial Imagery (B7)</td> <td>☐ Other (Explain in Remarks)</td> </tr> <tr> <td>☐ Sparsely Vegetated Concave Surface (B8)</td> <td></td> </tr> </table>	☐ 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)	☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Sparsely Vegetated Concave Surface (B8)		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)
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)																				
☐ High Water Table (A2)	☐ Aquatic Fauna (B13)																				
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☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)																				
☐ Sparsely Vegetated Concave Surface (B8)																					
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>																				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:																					

VEGETATION - Use scientific names of plants.

 Sampling Point: W411-UPL

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <i>Tsuga canadensis</i>	35	Y	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																
2. <i>Acer saccharum</i>	20	Y	FACU																	
3. <i>Fagus grandifolia</i>	15	N	FACU																	
4. <i>Pinus strobus</i>	12	N	FACU																	
5. <i>Betula lenta</i>	10	N	FACU																	
6. <i>Prunus serotina</i>	8	N	FACU																	
7. _____	_____	_____	_____																	
	100	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>146</u></td> <td>x 4 = <u>584</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>146</u> (A)</td> <td><u>584</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A= <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>146</u>	x 4 = <u>584</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>146</u> (A)	<u>584</u> (B)	Prevalence Index = B/A= <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>146</u>	x 4 = <u>584</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>146</u> (A)	<u>584</u> (B)																			
Prevalence Index = B/A= <u>4.00</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <i>Fagus grandifolia</i>	30	Y	FACU																	
2. <i>Tsuga canadensis</i>	5	N	FACU																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: _____ 1 - Rapid test for Hydrophytic Vegetation _____ 2 - Dominance Test is >50% _____ 3 - Prevalence Index is ≤3.0 ¹ _____ 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
	35	=Total Cover																		
Herb Stratum: (Plot size: <u>5</u>)																				
1. <i>Tsuga canadensis</i>	4	Y	FACU																	
2. <i>Fagus grandifolia</i>	3	Y	FACU																	
3. <i>Dendrolycopodium obscurum</i>	2	N	FACU																	
4. <i>Acer saccharum</i>	2	N	FACU																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	11	=Total Cover		Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	0	=Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W411-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	7.5YR 2.5/3	100		0			Sandy Loam	
3-5	10YR 3/3	100		0			Sandy Loam	
5-8	10YR 2/1	100		0			Sandy Loam	
8-15	10YR 4/4	100	None	0			Sandy Loam	
15-20	10YR 5/4	100		0			Sandy Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators:**

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Dark Surface (S7) (LRR R, MLRA 149B)

☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)
☐ Loamy Mucky Mineral (F1) (LRR K, L)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (LRR K, L, 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) (MLRA 149B)
☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes ☐ No ☒

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/11/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W412-PFO
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140 , LRR R Lat: 41.599 Long: -74.6509 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: PFO
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: <u>X</u> No: _____ Hydric Soil Present? Yes: <u>X</u> No: _____ Wetland Hydrology Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>W412</u>
Remarks: (Explain alternative procedures here or in a separate report.) Isolated wetland with standing water - potential vernal pool	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) ☐ 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)	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? Yes <u>X</u> No _____ Depth (inches): <u>6</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Depressional wetland with standing water.	

VEGETATION - Use scientific names of plants.

 Sampling Point: W412-PFO

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																																	
1. <u>Acer rubrum</u>	<u>40</u>	<u>Y</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B)																																																
2. <u>Tsuga canadensis</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>																																																	
3. _____																																																				
4. _____																																																				
5. _____																																																				
6. _____																																																				
7. _____																																																				
	<u>50</u>	=Total Cover																																																		
Sapling/Shrub Stratum: (Plot size: <u>15</u>)				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: left;">Multiply by:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> <tr> <td>OBL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 1 =</td> <td style="text-align: center;"><u>0</u></td> <td></td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;"><u>35</u></td> <td>x 2 =</td> <td style="text-align: center;"><u>70</u></td> <td></td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;"><u>40</u></td> <td>x 3 =</td> <td style="text-align: center;"><u>120</u></td> <td></td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;"><u>28</u></td> <td>x 4 =</td> <td style="text-align: center;"><u>112</u></td> <td></td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;"><u>0</u></td> <td>x 5 =</td> <td style="text-align: center;"><u>0</u></td> <td></td> <td></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;"><u>103</u></td> <td>(A)</td> <td style="text-align: center;"><u>302</u></td> <td>(B)</td> <td></td> </tr> <tr> <td colspan="3" style="padding-top: 5px;">Prevalence Index = B/A=</td> <td colspan="3" style="text-align: center; padding-top: 5px;"><u>2.93</u></td> </tr> </table>	Total % Cover of:		Multiply by:				OBL species	<u>0</u>	x 1 =	<u>0</u>			FACW species	<u>35</u>	x 2 =	<u>70</u>			FAC species	<u>40</u>	x 3 =	<u>120</u>			FACU species	<u>28</u>	x 4 =	<u>112</u>			UPL species	<u>0</u>	x 5 =	<u>0</u>			Column Totals:	<u>103</u>	(A)	<u>302</u>	(B)		Prevalence Index = B/A=			<u>2.93</u>		
Total % Cover of:		Multiply by:																																																		
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Prevalence Index = B/A=			<u>2.93</u>																																																	
1. <u>Vaccinium corymbosum</u>	<u>35</u>	<u>Y</u>	<u>FACW</u>																																																	
2. <u>Fagus grandifolia</u>	<u>10</u>	<u>N</u>	<u>FACU</u>																																																	
3. <u>Tsuga canadensis</u>	<u>8</u>	<u>N</u>	<u>FACU</u>																																																	
4. _____																																																				
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	<u>53</u>	=Total Cover																																																		
Herb Stratum: (Plot size: <u>5</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> X </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																																																
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Woody Vine Stratum: (Plot size: <u>30</u>)																																																				
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4. _____																																																				
	<u>0</u>	=Total Cover																																																		
Remarks: (Include photo numbers here or on a separate sheet.)				Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																																																

SOIL

Sampling Point: W412-PFO

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☒ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

Indicators for Problematic Hydric Soils³:

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Bedrock

Depth (inches): 6

Hydric Soil Present? Yes X No

Remarks: Stony/bedrock

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/11/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W412-UPL
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): None Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.5992 Long: -74.6509 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: No
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: _____ No: <u>X</u> Hydric Soil Present? Yes: _____ No: <u>X</u> Wetland Hydrology Present? Yes: _____ No: <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>W412D</u>
Remarks: (Explain alternative procedures here or in a separate report.) Plot is located in a relatively flat area with boulders.	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) ☐ 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)	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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

Sampling Point: W412-UPL

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Betula lenta</u>	40	Y	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																
2. <u>Acer saccharum</u>	25	Y	FACU																	
3. <u>Fagus grandifolia</u>	18	N	FACU																	
4. <u>Tsuga canadensis</u>	10	N	FACU																	
5. _____																				
6. _____																				
7. _____																				
	93	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>155</u></td> <td>x 4 = <u>620</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>155</u> (A)</td> <td><u>620</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A= <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>155</u>	x 4 = <u>620</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>155</u> (A)	<u>620</u> (B)	Prevalence Index = B/A= <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>155</u>	x 4 = <u>620</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>155</u> (A)	<u>620</u> (B)																			
Prevalence Index = B/A= <u>4.00</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <u>Fagus grandifolia</u>	50	Y	FACU																	
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	50	=Total Cover																		
Herb Stratum: (Plot size: <u>5</u>)																				
1. <u>Fagus grandifolia</u>	12	Y	FACU	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	12	=Total Cover																		
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____				Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
	0	=Total Cover		Hydrophytic Vegetation Present?																
Yes <u> </u> No <u>X</u>																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W412-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Stony

Depth (inches): 14

Hydric Soil Present?	Yes	No	X
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Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/11/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W413-PFO
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140 , LRR R Lat: 41.5972 Long: -74.6516 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: PFO
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present? Yes: <u>X</u> No: _____	If yes, optional Wetland Site ID: <u>W413</u>
Wetland Hydrology Present? Yes: <u>X</u> No: _____	
Remarks: (Explain alternative procedures here or in a separate report.) Isolated wetland in stony area.	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) ☐ 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)		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? Yes <u>X</u> No _____ Depth (inches): <u>6</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION - Use scientific names of plants.

 Sampling Point: W413-PFO

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u><i>Tsuga canadensis</i></u>	40	Y	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B)																
2. <u><i>Betula alleghaniensis</i></u>	35	Y	FAC																	
3. <u><i>Acer rubrum</i></u>	25	Y	FAC																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	100	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC species <u>65</u></td> <td>x 3 = <u>195</u></td> </tr> <tr> <td>FACU species <u>45</u></td> <td>x 4 = <u>180</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>115</u> (A)</td> <td><u>385</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A= <u>3.35</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>5</u>	x 2 = <u>10</u>	FAC species <u>65</u>	x 3 = <u>195</u>	FACU species <u>45</u>	x 4 = <u>180</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>115</u> (A)	<u>385</u> (B)	Prevalence Index = B/A= <u>3.35</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>5</u>	x 2 = <u>10</u>																			
FAC species <u>65</u>	x 3 = <u>195</u>																			
FACU species <u>45</u>	x 4 = <u>180</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>115</u> (A)	<u>385</u> (B)																			
Prevalence Index = B/A= <u>3.35</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <u><i>Tsuga canadensis</i></u>	5	Y	FACU																	
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	5	=Total Cover																		
Herb Stratum: (Plot size: <u>5</u>)																				
1. <u><i>Carex intumescens</i></u>	5	Y	FACW	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u><i>Acer rubrum</i></u>	5	Y	FAC																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	10	=Total Cover																		
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____				Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
	0	=Total Cover		Hydrophytic Vegetation Present?																
Yes <u> X </u> No <u> </u>																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W413-PFO

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☒ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

____ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)

- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Stony

Depth (inches): 8

Hydric Soil Present? Yes X No

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/11/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W413-UPL
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 8
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.5971 Long: -74.6519 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: No
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: _____ No: <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>W413</u>
Hydric Soil Present? Yes: _____ No: <u>X</u>	
Wetland Hydrology Present? Yes: _____ No: <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one required: check all that apply)		Secondary indicators (minimum of two required)
☐ Surface Water (A1) ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8)	☐ 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) ☐ Other (Explain in Remarks)	☐ 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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION - Use scientific names of plants.

 Sampling Point: W413-UPL

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer rubrum</u>	30	Y	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>20</u> (A/B)																
2. <u>Fagus grandifolia</u>	25	Y	FACU																	
3. <u>Tsuga canadensis</u>	15	N	FACU																	
4. <u>Betula lenta</u>	10	N	FACU																	
5. _____																				
6. _____																				
7. _____																				
	80	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU species <u>100</u></td> <td>x 4 = <u>400</u></td> </tr> <tr> <td>UPL species <u>15</u></td> <td>x 5 = <u>75</u></td> </tr> <tr> <td>Column Totals: <u>145</u> (A)</td> <td><u>565</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A= <u>3.90</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>30</u>	x 3 = <u>90</u>	FACU species <u>100</u>	x 4 = <u>400</u>	UPL species <u>15</u>	x 5 = <u>75</u>	Column Totals: <u>145</u> (A)	<u>565</u> (B)	Prevalence Index = B/A= <u>3.90</u>	
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Column Totals: <u>145</u> (A)	<u>565</u> (B)																			
Prevalence Index = B/A= <u>3.90</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <u>Fagus grandifolia</u>	45	Y	FACU																	
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	45	=Total Cover																		
Herb Stratum: (Plot size: <u>5</u>)																				
1. <u>Dennstaedtia punctilobula</u>	15	Y	UPL	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain)																
2. <u>Fagus grandifolia</u>	5	Y	FACU																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	20	=Total Cover		Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
	0	=Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W413-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Stony/bedrock

Depth (inches): 6

Hydric Soil Present?	Yes	No	X
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Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/12/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W414-PFO
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.6024 Long: -74.6503 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: PFO
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil X, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: <u>X</u> No: _____ Hydric Soil Present? Yes: <u>X</u> No: _____ Wetland Hydrology Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>W414</u>
Remarks: (Explain alternative procedures here or in a separate report.) Isolated wetland with two potential vernal pools and standing water. Thin hemic organic layer over bedrock.	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one required: check all that apply) <table style="width: 100%;"> <tr> <td><u>X</u> Surface Water (A1)</td> <td><u>X</u> Water-Stained Leaves (B9)</td> </tr> <tr> <td><u>X</u> High Water Table (A2)</td> <td><u>X</u> Aquatic Fauna (B13)</td> </tr> <tr> <td><u>X</u> Saturation (A3)</td> <td>Marl Deposits (B15)</td> </tr> <tr> <td>Water Marks (B1)</td> <td>Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td>Sediment Deposits (B2)</td> <td>Oxidized Rhizospheres on Living Roots (C3)</td> </tr> <tr> <td>Drift Deposits (B3)</td> <td>Presence of Reduced Iron (C4)</td> </tr> <tr> <td>Algal Mat or Crust (B4)</td> <td>Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td>Iron Deposits (B5)</td> <td>Thin Muck Surface (C7)</td> </tr> <tr> <td>Inundation Visible on Aerial Imagery (B7)</td> <td>Other (Explain in Remarks)</td> </tr> <tr> <td><u>X</u> Sparsely Vegetated Concave Surface (B8)</td> <td></td> </tr> </table>	<u>X</u> Surface Water (A1)	<u>X</u> Water-Stained Leaves (B9)	<u>X</u> High Water Table (A2)	<u>X</u> Aquatic Fauna (B13)	<u>X</u> 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)	Iron Deposits (B5)	Thin Muck Surface (C7)	Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	<u>X</u> Sparsely Vegetated Concave Surface (B8)		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) <u>X</u> Microtopographic Relief (D4) FAC-Neutral Test (D5)
<u>X</u> Surface Water (A1)	<u>X</u> Water-Stained Leaves (B9)																				
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<u>X</u> Sparsely Vegetated Concave Surface (B8)																					
Field Observations: Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>6</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____																				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																					
Remarks:																					

VEGETATION - Use scientific names of plants.

 Sampling Point: W414-PFO

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																																	
1. <u>Acer rubrum</u>	45	Y	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																																																
2. <u>Quercus rubra</u>	10	N	FACU																																																	
3. _____																																																				
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6. _____																																																				
7. _____																																																				
	55	=Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%; text-align: left;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%; text-align: center;">Multiply by:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;">0</td> <td>x 1 =</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">0</td> <td>x 2 =</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">45</td> <td>x 3 =</td> <td style="text-align: center;">135</td> <td></td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">10</td> <td>x 4 =</td> <td style="text-align: center;">40</td> <td></td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">55</td> <td>(A)</td> <td style="text-align: center;">175</td> <td>(B)</td> <td></td> </tr> <tr> <td colspan="3">Prevalence Index = B/A=</td> <td colspan="3" style="text-align: center;">3.18</td> </tr> </tbody> </table>	Total % Cover of:		Multiply by:				OBL species	0	x 1 =	0			FACW species	0	x 2 =	0			FAC species	45	x 3 =	135			FACU species	10	x 4 =	40			UPL species	0	x 5 =	0			Column Totals:	55	(A)	175	(B)		Prevalence Index = B/A=			3.18		
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	0	=Total Cover		Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																																
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Remarks: (Include photo numbers here or on a separate sheet.)																																																				

SOIL

Sampling Point: W414-PFO

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

Indicators for Problematic Hydric Soils³:

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☒ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Stony/bedrock

Depth (inches): 2

Hydric Soil Present? Yes X No

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/12/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W414-UPL
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.6024 Long: -74.6503 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: No
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: _____ No: <u>X</u> Hydric Soil Present? Yes: _____ No: <u>X</u> Wetland Hydrology Present? Yes: _____ No: <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>W414</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) ☐ 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)	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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

Sampling Point: W414-UPL

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Quercus rubra</u>	30	Y	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																
2. <u>Acer saccharum</u>	20	Y	FACU																	
3. <u>Fagus grandifolia</u>	10	N	FACU																	
4. <u>Betula lenta</u>	10	N	FACU																	
5. _____																				
6. _____																				
7. _____																				
	70	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 60%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>110</u></td> <td>x 4 = <u>440</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>110</u> (A)</td> <td><u>440</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A= <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>110</u>	x 4 = <u>440</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>110</u> (A)	<u>440</u> (B)	Prevalence Index = B/A= <u>4.00</u>	
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Column Totals: <u>110</u> (A)	<u>440</u> (B)																			
Prevalence Index = B/A= <u>4.00</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <u>Fagus grandifolia</u>	20	Y	FACU																	
2. <u>Betula lenta</u>	15	Y	FACU																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	35	=Total Cover																		
Herb Stratum: (Plot size: <u>5</u>)																				
1. <u>Fagus grandifolia</u>	5	Y	FACU	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	5	=Total Cover																		
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____				Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
	0	=Total Cover		Hydrophytic Vegetation Present?																
Yes <u> </u> No <u>X</u>																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W414-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:	Bedrock
Depth (inches):	5

Hydric Soil Present? Yes No X

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/09/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W400-UPL
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Convex Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140 , LRR R Lat: 41.595117 Long: -74.65722 Datum: _____
 Soil Map Unit Name: Nf - Neversink and Alden soils, very stony NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: _____ No: <u>X</u> Hydric Soil Present? Yes: _____ No: <u>X</u> Wetland Hydrology Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>W400</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) ☐ 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)	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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>3</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W400-UPL

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <i>Tsuga canadensis</i>	40	Y	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>20</u> (A/B)																
2. <i>Acer rubrum</i>	25	Y	FAC																	
3. <i>Acer saccharum</i>	18	N	FACU																	
4. <i>Betula alleghaniensis</i>	10	N	FAC																	
5. <i>Prunus serotina</i>	8	N	FACU																	
6.																				
7.																				
	101	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>35</u></td> <td>x 3 = <u>105</u></td> </tr> <tr> <td>FACU species <u>86</u></td> <td>x 4 = <u>344</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>121</u> (A)</td> <td><u>449</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A= <u>3.71</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>35</u>	x 3 = <u>105</u>	FACU species <u>86</u>	x 4 = <u>344</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>121</u> (A)	<u>449</u> (B)	Prevalence Index = B/A= <u>3.71</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>35</u>	x 3 = <u>105</u>																			
FACU species <u>86</u>	x 4 = <u>344</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>121</u> (A)	<u>449</u> (B)																			
Prevalence Index = B/A= <u>3.71</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <i>Tsuga canadensis</i>	15	Y	FACU																	
2.																				
3.																				
4.																				
5.																				
6.																				
7.																				
	15	=Total Cover		Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum: (Plot size: <u>5</u>)																				
1. <i>Tsuga canadensis</i>	3	Y	FACU																	
2. <i>Fagus grandifolia</i>	2	Y	FACU																	
3.																				
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				
11.																				
12.																				
	5	=Total Cover		Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1.																				
2.																				
3.																				
4.																				
	0	=Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W400-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present?	Yes	No	X
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Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/12/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W415-UPL
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 3
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.6003 Long: -74.6477 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: No
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: _____ No: <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>W415</u>
Hydric Soil Present? Yes: _____ No: <u>X</u>	
Wetland Hydrology Present? Yes: _____ No: <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one required: check all that apply)		Secondary indicators (minimum of two required)
☐ Surface Water (A1) ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8)	☐ 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) ☐ Other (Explain in Remarks)	☐ 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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION - Use scientific names of plants.

 Sampling Point: W415-UPL

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer saccharum</u>	40	Y	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>33</u> (A/B)																
2. <u>Betula alleghaniensis</u>	18	Y	FAC																	
3. <u>Acer rubrum</u>	15	N	FAC																	
4. <u>Fagus grandifolia</u>	10	N	FACU																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	83	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>51</u></td> <td>x 3 = <u>153</u></td> </tr> <tr> <td>FACU species <u>112</u></td> <td>x 4 = <u>448</u></td> </tr> <tr> <td>UPL species <u>8</u></td> <td>x 5 = <u>40</u></td> </tr> <tr> <td>Column Totals: <u>171</u> (A)</td> <td><u>641</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A= <u>3.75</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>51</u>	x 3 = <u>153</u>	FACU species <u>112</u>	x 4 = <u>448</u>	UPL species <u>8</u>	x 5 = <u>40</u>	Column Totals: <u>171</u> (A)	<u>641</u> (B)	Prevalence Index = B/A= <u>3.75</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>51</u>	x 3 = <u>153</u>																			
FACU species <u>112</u>	x 4 = <u>448</u>																			
UPL species <u>8</u>	x 5 = <u>40</u>																			
Column Totals: <u>171</u> (A)	<u>641</u> (B)																			
Prevalence Index = B/A= <u>3.75</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <u>Fagus grandifolia</u>	50	Y	FACU																	
2. <u>Betula alleghaniensis</u>	18	Y	FAC																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	68	=Total Cover																		
Herb Stratum: (Plot size: <u>5</u>)																				
1. <u>Fagus grandifolia</u>	12	Y	FACU	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Dennstaedtia punctilobula</u>	8	Y	UPL																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	20	=Total Cover																		
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____	_____	_____	_____	Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	0	=Total Cover		Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W415-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☒ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:	<u>Bedrock</u>
Depth (inches):	2

Hydric Soil Present?	Yes	No	X
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Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/12/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W415-PFO
 Investigator(s): P. London, K. Shand Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140 , LRR R Lat: 41.6004 Long: -74.6479 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: PFO
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: <u>X</u> No: _____ Hydric Soil Present? Yes: <u>X</u> No: _____ Wetland Hydrology Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>W415</u>
Remarks: (Explain alternative procedures here or in a separate report.) Isolated wetland	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one required: check all that apply) <u>X</u> Surface Water (A1) <u>X</u> High Water Table (A2) <u>X</u> Saturation (A3) <u>X</u> Water Marks (B1) _____ Sediment Deposits (B2) _____ Drift Deposits (B3) _____ Algal Mat or Crust (B4) _____ Iron Deposits (B5) _____ Inundation Visible on Aerial Imagery (B7) _____ Sparsely Vegetated Concave Surface (B8) <u>X</u> Water-Stained Leaves (B9) <u>X</u> Aquatic Fauna (B13) _____ Marl Deposits (B15) <u>X</u> 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) _____ Other (Explain in Remarks)	Secondary indicators (minimum of two required) _____ Surface Soil Cracks (B6) <u>X</u> 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) <u>X</u> Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>20</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W415-PFO

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer rubrum</u>	<u>30</u>	<u>Y</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>60</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>30</u>	=Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%; text-align: left; padding: 5px;">Total % Cover of:</th> <th style="width: 60%; text-align: left; padding: 5px;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">OBL species <u>12</u></td> <td style="padding: 5px;"><u>x 1 = 12</u></td> </tr> <tr> <td style="padding: 5px;">FACW species <u>0</u></td> <td style="padding: 5px;"><u>x 2 = 0</u></td> </tr> <tr> <td style="padding: 5px;">FAC species <u>30</u></td> <td style="padding: 5px;"><u>x 3 = 90</u></td> </tr> <tr> <td style="padding: 5px;">FACU species <u>8</u></td> <td style="padding: 5px;"><u>x 4 = 32</u></td> </tr> <tr> <td style="padding: 5px;">UPL species <u>6</u></td> <td style="padding: 5px;"><u>x 5 = 30</u></td> </tr> <tr> <td style="padding: 5px;">Column Totals: <u>56</u> (A)</td> <td style="padding: 5px;"><u>164</u> (B)</td> </tr> <tr> <td colspan="2" style="padding: 5px;">Prevalence Index = B/A= <u>2.93</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u>12</u>	<u>x 1 = 12</u>	FACW species <u>0</u>	<u>x 2 = 0</u>	FAC species <u>30</u>	<u>x 3 = 90</u>	FACU species <u>8</u>	<u>x 4 = 32</u>	UPL species <u>6</u>	<u>x 5 = 30</u>	Column Totals: <u>56</u> (A)	<u>164</u> (B)	Prevalence Index = B/A= <u>2.93</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>12</u>	<u>x 1 = 12</u>																			
FACW species <u>0</u>	<u>x 2 = 0</u>																			
FAC species <u>30</u>	<u>x 3 = 90</u>																			
FACU species <u>8</u>	<u>x 4 = 32</u>																			
UPL species <u>6</u>	<u>x 5 = 30</u>																			
Column Totals: <u>56</u> (A)	<u>164</u> (B)																			
Prevalence Index = B/A= <u>2.93</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> X </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain)																
1. <u>Fagus grandifolia</u>	<u>8</u>	<u>Y</u>	<u>FACU</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>8</u>	=Total Cover		Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																
Herb Stratum: (Plot size: <u>5</u>)																				
1. <u>Hydrocotyle americana</u>	<u>7</u>	<u>Y</u>	<u>OBL</u>																	
2. <u>Dennstaedtia punctilobula</u>	<u>6</u>	<u>Y</u>	<u>UPL</u>																	
3. <u>Lycopus americanus</u>	<u>5</u>	<u>Y</u>	<u>OBL</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	<u>18</u>	=Total Cover																		
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	<u>0</u>	=Total Cover																		

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

SOIL

Sampling Point: W415-PFO

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☒ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Bedrock

Depth (inches): 9

Hydric Soil Present? Yes X No

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/09/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W400-WET
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Marsh Local relief (concave, convex, none): Concave Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.595311 Long: -74.657502 Datum: _____
 Soil Map Unit Name: Ne - Neversink loam NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: <u>X</u> No: _____ Hydric Soil Present? Yes: <u>X</u> No: _____ Wetland Hydrology Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>W400</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) ☐ 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)	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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W400-WET

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																																																	
1. <i>Acer rubrum</i>	35	Y	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>80</u> (A/B)																																																
2. <i>Pinus strobus</i>	25	Y	FACU																																																	
3.																																																				
4.																																																				
5.																																																				
6.																																																				
7.																																																				
	60	=Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Total % Cover of:</th> <th style="width: 10%;"></th> <th style="width: 10%;">Multiply by:</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td style="text-align: center;">50</td> <td>x 1 =</td> <td style="text-align: center;">50</td> <td></td> <td></td> </tr> <tr> <td>FACW species</td> <td style="text-align: center;">60</td> <td>x 2 =</td> <td style="text-align: center;">120</td> <td></td> <td></td> </tr> <tr> <td>FAC species</td> <td style="text-align: center;">63</td> <td>x 3 =</td> <td style="text-align: center;">189</td> <td></td> <td></td> </tr> <tr> <td>FACU species</td> <td style="text-align: center;">33</td> <td>x 4 =</td> <td style="text-align: center;">132</td> <td></td> <td></td> </tr> <tr> <td>UPL species</td> <td style="text-align: center;">0</td> <td>x 5 =</td> <td style="text-align: center;">0</td> <td></td> <td></td> </tr> <tr> <td>Column Totals:</td> <td style="text-align: center;">206</td> <td>(A)</td> <td style="text-align: center;">491</td> <td>(B)</td> <td></td> </tr> <tr> <td colspan="3">Prevalence Index = B/A=</td> <td style="text-align: center;">2.38</td> <td colspan="2"></td> </tr> </tbody> </table>	Total % Cover of:		Multiply by:				OBL species	50	x 1 =	50			FACW species	60	x 2 =	120			FAC species	63	x 3 =	189			FACU species	33	x 4 =	132			UPL species	0	x 5 =	0			Column Totals:	206	(A)	491	(B)		Prevalence Index = B/A=			2.38		
Total % Cover of:		Multiply by:																																																		
OBL species	50	x 1 =	50																																																	
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Column Totals:	206	(A)	491	(B)																																																
Prevalence Index = B/A=			2.38																																																	
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																																																				
1. <i>Vaccinium corymbosum</i>	60	Y	FACW																																																	
2. <i>Acer rubrum</i>	8	N	FAC																																																	
3.																																																				
4.																																																				
5.																																																				
6.																																																				
7.																																																				
	68	=Total Cover		Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> X </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																																
Herb Stratum: (Plot size: <u>5</u>)																																																				
1. <i>Carex lurida</i>	50	Y	OBL																																																	
2. <i>Osmunda claytoniana</i>	20	Y	FAC																																																	
3. <i>Tsuga canadensis</i>	5	N	FACU																																																	
4. <i>Dendrolycopodium obscurum</i>	3	N	FACU																																																	
5.																																																				
6.																																																				
7.																																																				
8.																																																				
9.																																																				
10.																																																				
11.																																																				
12.																																																				
	78	=Total Cover		Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																																																
Woody Vine Stratum: (Plot size: <u>30</u>)																																																				
1.																																																				
2.																																																				
3.																																																				
4.																																																				
	0	=Total Cover																																																		
Remarks: (Include photo numbers here or on a separate sheet.)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																																																

SOIL

Sampling Point: W400-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☒ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/09/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W401-UPL
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Convex Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140 , LRR R Lat: 41.595162 Long: -74.664345 Datum: _____
 Soil Map Unit Name: WuB - Wurtsboro loam, 3 to 8 percent slopes, stony NWI classification: No

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: _____ No: <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>W401</u>
Hydric Soil Present? Yes: _____ No: <u>X</u>	
Wetland Hydrology Present? Yes: _____ No: <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one required: check all that apply)		Secondary indicators (minimum of two required)
☐ Surface Water (A1) ☐ High Water Table (A2) ☐ Saturation (A3) ☐ Water Marks (B1) ☐ Sediment Deposits (B2) ☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8)	☐ 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) ☐ Other (Explain in Remarks)	☐ 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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION - Use scientific names of plants.

 Sampling Point: W401-UPL

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <i>Pinus strobus</i>	55	Y	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>25</u> (A/B)																
2. <i>Acer rubrum</i>	35	Y	FAC																	
3. <i>Prunus serotina</i>	10	N	FACU																	
4.																				
5.																				
6.																				
7.																				
	100	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>8</u></td> <td>x 2 = <u>16</u></td> </tr> <tr> <td>FAC species <u>35</u></td> <td>x 3 = <u>105</u></td> </tr> <tr> <td>FACU species <u>110</u></td> <td>x 4 = <u>440</u></td> </tr> <tr> <td>UPL species <u>60</u></td> <td>x 5 = <u>300</u></td> </tr> <tr> <td>Column Totals: <u>213</u> (A)</td> <td><u>861</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A= <u>4.04</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>8</u>	x 2 = <u>16</u>	FAC species <u>35</u>	x 3 = <u>105</u>	FACU species <u>110</u>	x 4 = <u>440</u>	UPL species <u>60</u>	x 5 = <u>300</u>	Column Totals: <u>213</u> (A)	<u>861</u> (B)	Prevalence Index = B/A= <u>4.04</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>8</u>	x 2 = <u>16</u>																			
FAC species <u>35</u>	x 3 = <u>105</u>																			
FACU species <u>110</u>	x 4 = <u>440</u>																			
UPL species <u>60</u>	x 5 = <u>300</u>																			
Column Totals: <u>213</u> (A)	<u>861</u> (B)																			
Prevalence Index = B/A= <u>4.04</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <i>Pinus strobus</i>	45	Y	FACU																	
2. <i>Vaccinium corymbosum</i>	8	N	FACW																	
3.																				
4.																				
5.																				
6.																				
7.																				
	53	=Total Cover																		
Herb Stratum: (Plot size: <u>5</u>)																				
1. <i>Dennstaedtia punctilobula</i>	60	Y	UPL	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2.																				
3.																				
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				
11.																				
12.																				
	60	=Total Cover																		
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1.				Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
2.																				
3.																				
4.																				
	0	=Total Cover		Hydrophytic Vegetation Present?																
Yes <u> </u> No <u>X</u>																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W401-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No X

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/09/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W401-WET
 Investigator(s): P. London, K. Shand Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Drainageway Local relief (concave, convex, none): Concave Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140 , LRR R Lat: 41.595023 Long: -74.664597 Datum: _____
 Soil Map Unit Name: WuB - Wurtsboro loam, 3 to 8 percent slopes, stony NWI classification: PEM
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: <u>X</u> No: _____ Hydric Soil Present? Yes: <u>X</u> No: _____ Wetland Hydrology Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>W401</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) ☐ 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)	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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>10</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W401-WET

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
<u>0</u> =Total Cover				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Total % Cover of:</th> <th style="text-align: left; border-bottom: 1px solid black;">Multiply by:</th> </tr> <tr> <td>OBL species <u>26</u></td> <td>x 1 = <u>26</u></td> </tr> <tr> <td>FACW species <u>8</u></td> <td>x 2 = <u>16</u></td> </tr> <tr> <td>FAC species <u>75</u></td> <td>x 3 = <u>225</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>109</u> (A)</td> <td><u>267</u> (B)</td> </tr> <tr> <td colspan="2" style="padding-top: 5px;">Prevalence Index = B/A= <u>2.45</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>26</u>	x 1 = <u>26</u>	FACW species <u>8</u>	x 2 = <u>16</u>	FAC species <u>75</u>	x 3 = <u>225</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>109</u> (A)	<u>267</u> (B)	Prevalence Index = B/A= <u>2.45</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>26</u>	x 1 = <u>26</u>																			
FACW species <u>8</u>	x 2 = <u>16</u>																			
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UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>109</u> (A)	<u>267</u> (B)																			
Prevalence Index = B/A= <u>2.45</u>																				
<u>8</u> =Total Cover																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <i>Spiraea tomentosa</i>	8	Y	FACW	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> X </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain)																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
<u>8</u> =Total Cover																				
Herb Stratum: (Plot size: <u>5</u>)																				
1. <i>Symphyotrichum lateriflorum</i>	40	Y	FAC	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
2. <i>Euthamia graminifolia</i>	35	Y	FAC																	
3. <i>Persicaria sagittata</i>	12	N	OBL																	
4. <i>Epilobium coloratum</i>	10	N	OBL																	
5. <i>Boehmeria cylindrica</i>	4	N	OBL																	
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
<u>101</u> =Total Cover																				
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____				Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																
2. _____																				
3. _____																				
4. _____																				
<u>0</u> =Total Cover																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W401-WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/10/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W406-UPL
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Convex Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.5945 Long: -74.6568 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: No
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: _____ No: <u>X</u> Hydric Soil Present? Yes: _____ No: <u>X</u> Wetland Hydrology Present? Yes: _____ No: <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>W406</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) ☐ 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)	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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W406-UPL

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <i>Tsuga canadensis</i>	60	Y	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																
2. <i>Acer saccharum</i>	25	Y	FACU																	
3. <i>Pinus strobus</i>	15	N	FACU																	
4.																				
5.																				
6.																				
7.																				
	100	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>121</u></td> <td>x 4 = <u>484</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>121</u> (A)</td> <td><u>484</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A= <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>121</u>	x 4 = <u>484</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>121</u> (A)	<u>484</u> (B)	Prevalence Index = B/A= <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>121</u>	x 4 = <u>484</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>121</u> (A)	<u>484</u> (B)																			
Prevalence Index = B/A= <u>4.00</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <i>Tsuga canadensis</i>	10	Y	FACU																	
2. <i>Fagus grandifolia</i>	5	Y	FACU																	
3.																				
4.																				
5.																				
6.																				
7.																				
	15	=Total Cover																		
Herb Stratum: (Plot size: <u>5</u>)																				
1. <i>Acer saccharum</i>	4	Y	FACU	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <i>Pinus strobus</i>	2	Y	FACU																	
3.																				
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				
11.																				
12.																				
	6	=Total Cover																		
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1.				Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
2.																				
3.																				
4.																				
	0	=Total Cover		Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W406-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present?	Yes	No	X
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Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/10/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W407-UPL
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Convex Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.5942 Long: -74.6561 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: No
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: _____ No: <u>X</u> Hydric Soil Present? Yes: _____ No: <u>X</u> Wetland Hydrology Present? Yes: _____ No: <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>W407</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) ☐ 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)	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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W407-UPL

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u><i>Tsuga canadensis</i></u>	60	Y	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																
2. <u><i>Pinus strobus</i></u>	20	Y	FACU																	
3. <u><i>Acer saccharum</i></u>	15	N	FACU																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	95	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>143</u></td> <td>x 4 = <u>572</u></td> </tr> <tr> <td>UPL species <u>6</u></td> <td>x 5 = <u>30</u></td> </tr> <tr> <td>Column Totals: <u>149</u> (A)</td> <td><u>602</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.04</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>143</u>	x 4 = <u>572</u>	UPL species <u>6</u>	x 5 = <u>30</u>	Column Totals: <u>149</u> (A)	<u>602</u> (B)	Prevalence Index = B/A = <u>4.04</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>143</u>	x 4 = <u>572</u>																			
UPL species <u>6</u>	x 5 = <u>30</u>																			
Column Totals: <u>149</u> (A)	<u>602</u> (B)																			
Prevalence Index = B/A = <u>4.04</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <u><i>Fagus grandifolia</i></u>	35	Y	FACU																	
2. <u><i>Tsuga canadensis</i></u>	8	N	FACU																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	43	=Total Cover		Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum: (Plot size: <u>5</u>)																				
1. <u><i>Dennstaedtia punctilobula</i></u>	6	Y	UPL																	
2. <u><i>Fagus grandifolia</i></u>	3	Y	FACU																	
3. <u><i>Dendrolycopodium obscurum</i></u>	2	N	FACU																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	11	=Total Cover		Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
	0	=Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W407-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:	<u>Bedrock</u>
Depth (inches):	12

Hydric Soil Present?	Yes	No	X
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Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/10/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W408-PFO
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.5929 Long: -74.6557 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: PFO
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation X, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: <u>X</u> No: _____ Hydric Soil Present? Yes: <u>X</u> No: _____ Wetland Hydrology Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>W408</u>
Remarks: (Explain alternative procedures here or in a separate report.) Problematic - FACU species that commonly dominate wetlands.	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) _____ 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)	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? Yes <u>X</u> No _____ Depth (inches): <u>18</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W408-PFO

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)																
1. <u>Acer rubrum</u>	35	Y	FAC	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%; text-align: left; padding: 5px;">Total % Cover of:</th> <th style="width: 60%; text-align: left; padding: 5px;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">OBL species <u>0</u></td> <td style="padding: 5px;">x 1 = <u>0</u></td> </tr> <tr> <td style="padding: 5px;">FACW species <u>0</u></td> <td style="padding: 5px;">x 2 = <u>0</u></td> </tr> <tr> <td style="padding: 5px;">FAC species <u>35</u></td> <td style="padding: 5px;">x 3 = <u>105</u></td> </tr> <tr> <td style="padding: 5px;">FACU species <u>25</u></td> <td style="padding: 5px;">x 4 = <u>100</u></td> </tr> <tr> <td style="padding: 5px;">UPL species <u>0</u></td> <td style="padding: 5px;">x 5 = <u>0</u></td> </tr> <tr> <td style="padding: 5px;">Column Totals: <u>60</u> (A)</td> <td style="padding: 5px;"><u>205</u> (B)</td> </tr> <tr> <td colspan="2" style="padding: 5px;">Prevalence Index = B/A = <u>3.42</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>35</u>	x 3 = <u>105</u>	FACU species <u>25</u>	x 4 = <u>100</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>60</u> (A)	<u>205</u> (B)	Prevalence Index = B/A = <u>3.42</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>35</u>	x 3 = <u>105</u>																			
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Column Totals: <u>60</u> (A)	<u>205</u> (B)																			
Prevalence Index = B/A = <u>3.42</u>																				
2. <u>Tsuga canadensis</u>	15	Y	FACU																	
3. <u>Acer saccharum</u>	10	N	FACU																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	60	=Total Cover		Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> X </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____	Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
	0	=Total Cover																		
Herb Stratum: (Plot size: <u>5</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	0	=Total Cover																		
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	0	=Total Cover																		

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

SOIL

Sampling Point: W408-PFO

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/10/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W406-PFO
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.5945 Long: -74.6568 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: PFO
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation X, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: <u>X</u> No: _____ Hydric Soil Present? Yes: <u>X</u> No: _____ Wetland Hydrology Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>W406</u>
Remarks: (Explain alternative procedures here or in a separate report.) Problematic - FACU species that commonly dominate wetlands.	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one required: check all that apply) <table style="width: 100%;"> <tr> <td><u>X</u> Surface Water (A1)</td> <td><u>X</u> Water-Stained Leaves (B9)</td> </tr> <tr> <td><u>X</u> High Water Table (A2)</td> <td><u>X</u> Aquatic Fauna (B13)</td> </tr> <tr> <td><u>X</u> Saturation (A3)</td> <td>_____ Marl Deposits (B15)</td> </tr> <tr> <td><u>X</u> Water Marks (B1)</td> <td>_____ Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td>_____ Sediment Deposits (B2)</td> <td>_____ Oxidized Rhizospheres on Living Roots (C3)</td> </tr> <tr> <td>_____ Drift Deposits (B3)</td> <td>_____ Presence of Reduced Iron (C4)</td> </tr> <tr> <td>_____ Algal Mat or Crust (B4)</td> <td>_____ Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td>_____ Iron Deposits (B5)</td> <td>_____ Thin Muck Surface (C7)</td> </tr> <tr> <td>_____ Inundation Visible on Aerial Imagery (B7)</td> <td>_____ Other (Explain in Remarks)</td> </tr> <tr> <td><u>X</u> Sparsely Vegetated Concave Surface (B8)</td> <td></td> </tr> </table>	<u>X</u> Surface Water (A1)	<u>X</u> Water-Stained Leaves (B9)	<u>X</u> High Water Table (A2)	<u>X</u> Aquatic Fauna (B13)	<u>X</u> Saturation (A3)	_____ Marl Deposits (B15)	<u>X</u> 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)	_____ Iron Deposits (B5)	_____ Thin Muck Surface (C7)	_____ Inundation Visible on Aerial Imagery (B7)	_____ Other (Explain in Remarks)	<u>X</u> Sparsely Vegetated Concave Surface (B8)		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) <u>X</u> Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
<u>X</u> Surface Water (A1)	<u>X</u> Water-Stained Leaves (B9)																				
<u>X</u> High Water Table (A2)	<u>X</u> Aquatic Fauna (B13)																				
<u>X</u> Saturation (A3)	_____ Marl Deposits (B15)																				
<u>X</u> Water Marks (B1)	_____ Hydrogen Sulfide Odor (C1)																				
_____ Sediment Deposits (B2)	_____ Oxidized Rhizospheres on Living Roots (C3)																				
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_____ Iron Deposits (B5)	_____ Thin Muck Surface (C7)																				
_____ Inundation Visible on Aerial Imagery (B7)	_____ Other (Explain in Remarks)																				
<u>X</u> Sparsely Vegetated Concave Surface (B8)																					
Field Observations: Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>12</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____																				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:																					

VEGETATION - Use scientific names of plants.

 Sampling Point: W406-PFO

	Absolute % Cover	Dominant Species?	Indicator Status																																	
Tree Stratum: (Plot size: <u>30</u>)																																				
1. <u>Acer rubrum</u>	<u>30</u>	<u>Y</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)																																
2. <u>Tsuga canadensis</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
	<u>40</u>	=Total Cover																																		
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																																				
1. _____	_____	_____	_____	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> <tr> <td>OBL species</td> <td><u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species</td> <td><u>0</u></td> <td>x 2 =</td> <td><u>0</u></td> </tr> <tr> <td>FAC species</td> <td><u>30</u></td> <td>x 3 =</td> <td><u>90</u></td> </tr> <tr> <td>FACU species</td> <td><u>10</u></td> <td>x 4 =</td> <td><u>40</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>40</u></td> <td>(A)</td> <td><u>130</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A=</td> <td colspan="2"><u>3.25</u></td> </tr> </table>	Total % Cover of:		Multiply by:		OBL species	<u>0</u>	x 1 =	<u>0</u>	FACW species	<u>0</u>	x 2 =	<u>0</u>	FAC species	<u>30</u>	x 3 =	<u>90</u>	FACU species	<u>10</u>	x 4 =	<u>40</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>40</u>	(A)	<u>130</u> (B)	Prevalence Index = B/A=		<u>3.25</u>	
Total % Cover of:		Multiply by:																																		
OBL species	<u>0</u>	x 1 =	<u>0</u>																																	
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UPL species	<u>0</u>	x 5 =	<u>0</u>																																	
Column Totals:	<u>40</u>	(A)	<u>130</u> (B)																																	
Prevalence Index = B/A=		<u>3.25</u>																																		
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
	<u>0</u>	=Total Cover																																		
Herb Stratum: (Plot size: <u>5</u>)																																				
1. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> X </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
5. _____	_____	_____	_____																																	
6. _____	_____	_____	_____																																	
7. _____	_____	_____	_____																																	
8. _____	_____	_____	_____																																	
9. _____	_____	_____	_____	Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																																
10. _____	_____	_____	_____																																	
11. _____	_____	_____	_____																																	
12. _____	_____	_____	_____																																	
	<u>0</u>	=Total Cover																																		
Woody Vine Stratum: (Plot size: <u>30</u>)																																				
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																																
2. _____	_____	_____	_____																																	
3. _____	_____	_____	_____																																	
4. _____	_____	_____	_____																																	
	<u>0</u>	=Total Cover																																		
Remarks: (Include photo numbers here or on a separate sheet.) Problematic - FACU species that commonly dominate wetlands..																																				

SOIL

Sampling Point: W406-PFO

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

Indicators for Problematic Hydric Soils³:

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Bedrock

Depth (inches): 15

Hydric Soil Present? Yes X No

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/10/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W405-UPL
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Convex Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.5936 Long: -74.6619 Datum: _____
 Soil Map Unit Name: Nf - Neversink and Alden soils, very stony NWI classification: No

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: _____ No: <u>X</u> Hydric Soil Present? Yes: _____ No: <u>X</u> Wetland Hydrology Present? Yes: _____ No: <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>W405</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) ☐ 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)	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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W405-UPL

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <i>Tsuga canadensis</i>	35	Y	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																
2. <i>Betula lenta</i>	20	Y	FACU																	
3. <i>Acer rubrum</i>	18	N	FAC																	
4. <i>Acer saccharum</i>	15	N	FACU																	
5. <i>Pinus strobus</i>	10	N	FACU																	
6.																				
7.																				
	98	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>18</u></td> <td>x 3 = <u>54</u></td> </tr> <tr> <td>FACU species <u>158</u></td> <td>x 4 = <u>632</u></td> </tr> <tr> <td>UPL species <u>4</u></td> <td>x 5 = <u>20</u></td> </tr> <tr> <td>Column Totals: <u>180</u> (A)</td> <td><u>706</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A= <u>3.92</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>18</u>	x 3 = <u>54</u>	FACU species <u>158</u>	x 4 = <u>632</u>	UPL species <u>4</u>	x 5 = <u>20</u>	Column Totals: <u>180</u> (A)	<u>706</u> (B)	Prevalence Index = B/A= <u>3.92</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
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FACU species <u>158</u>	x 4 = <u>632</u>																			
UPL species <u>4</u>	x 5 = <u>20</u>																			
Column Totals: <u>180</u> (A)	<u>706</u> (B)																			
Prevalence Index = B/A= <u>3.92</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <i>Fagus grandifolia</i>	45	Y	FACU																	
2. <i>Tsuga canadensis</i>	15	Y	FACU																	
3. <i>Pinus strobus</i>	5	N	FACU																	
4.																				
5.																				
6.																				
7.																				
	65	=Total Cover		Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum: (Plot size: <u>5</u>)																				
1. <i>Medeola virginiana</i>	5	Y	FACU																	
2. <i>Fagus grandifolia</i>	5	Y	FACU																	
3. <i>Dennstaedtia punctilobula</i>	4	Y	UPL																	
4. <i>Dendrolycopodium obscurum</i>	2	N	FACU																	
5. <i>Mitchella repens</i>	1	N	FACU																	
6.																				
7.																				
8.																				
9.																				
10.																				
11.																				
12.																				
	17	=Total Cover		Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1.																				
2.																				
3.																				
4.																				
	0	=Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)																				

Sampling Point: W405-UPL

[illegible]²Location: PL=Pore Lining, M=Matrix.

Indicators for Problematic Hydric Soils³:

- ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Hydric Soil Present? Yes ☐ No ☒

Northcentral and Northeast Region – Version 2.0

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/10/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W405-PFO
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140 , LRR R Lat: 41.5938 Long: -74.6621 Datum: _____
 Soil Map Unit Name: Nf - Neversink and Alden soils, very stony NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: <u>X</u> No: _____ Hydric Soil Present? Yes: <u>X</u> No: _____ Wetland Hydrology Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>W405</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) ☐ 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)	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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>5</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Pockets of 3-5" standing water pools	

VEGETATION - Use scientific names of plants.

 Sampling Point: W405-PFO

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <i>Betula alleghaniensis</i>	25	Y	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>57</u> (A/B)																
2. <i>Acer rubrum</i>	20	Y	FAC																	
3. <i>Pinus strobus</i>	15	N	FACU																	
4. <i>Nyssa sylvatica</i>	10	N	FAC																	
5. <i>Tsuga canadensis</i>	8	N	FACU																	
6.																				
7.																				
	78	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>18</u></td> <td>x 2 = <u>36</u></td> </tr> <tr> <td>FAC species <u>60</u></td> <td>x 3 = <u>180</u></td> </tr> <tr> <td>FACU species <u>51</u></td> <td>x 4 = <u>204</u></td> </tr> <tr> <td>UPL species <u>3</u></td> <td>x 5 = <u>15</u></td> </tr> <tr> <td>Column Totals: <u>132</u> (A)</td> <td><u>435</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.30</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>18</u>	x 2 = <u>36</u>	FAC species <u>60</u>	x 3 = <u>180</u>	FACU species <u>51</u>	x 4 = <u>204</u>	UPL species <u>3</u>	x 5 = <u>15</u>	Column Totals: <u>132</u> (A)	<u>435</u> (B)	Prevalence Index = B/A = <u>3.30</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>18</u>	x 2 = <u>36</u>																			
FAC species <u>60</u>	x 3 = <u>180</u>																			
FACU species <u>51</u>	x 4 = <u>204</u>																			
UPL species <u>3</u>	x 5 = <u>15</u>																			
Column Totals: <u>132</u> (A)	<u>435</u> (B)																			
Prevalence Index = B/A = <u>3.30</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <i>Vaccinium corymbosum</i>	18	Y	FACW																	
2. <i>Fagus grandifolia</i>	15	Y	FACU																	
3. <i>Pinus strobus</i>	10	Y	FACU																	
4. <i>Tsuga canadensis</i>	3	N	FACU																	
5.																				
6.																				
7.				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
	46	=Total Cover																		
Herb Stratum: (Plot size: <u>5</u>)																				
1. <i>Osmunda claytoniana</i>	5	Y	FAC																	
2. <i>Dennstaedtia punctilobula</i>	3	Y	UPL																	
3.																				
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				
11.																				
12.																				
	8	=Total Cover		Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1.																				
2.																				
3.																				
4.																				
	0	=Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W405-PFO

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	7.5YR 2.5/2	100		0			Organic Soil Layer	
5-7	7.5YR 2.5/1	100		0			Sandy Loam	
7-18	10YR 5/1	100		0			Sandy Loam	
18-20	10YR 6/1	80	10YR 3/4	20	C	M	Sandy Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Dark Surface (S7) (LRR R, MLRA 149B)

☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)
☐ Loamy Mucky Mineral (F1) (LRR K, L)
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (LRR K, L, 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) (MLRA 149B)
☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/10/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W404-UPL
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.5962 Long: -74.6615 Datum: _____
 Soil Map Unit Name: Nf - Neversink and Alden soils, very stony NWI classification: No

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: _____ No: <u>X</u> Hydric Soil Present? Yes: _____ No: <u>X</u> Wetland Hydrology Present? Yes: _____ No: <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>W404</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) ☐ 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)	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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W404-UPL

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer saccharum</u>	60	Y	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																
2. <u>Tsuga canadensis</u>	18	N	FACU																	
3. <u>Acer rubrum</u>	10	N	FAC																	
4. <u>Prunus serotina</u>	8	N	FACU																	
5. <u>Fagus grandifolia</u>	5	N	FACU																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	101	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>10</u></td> <td>x 3 = <u>30</u></td> </tr> <tr> <td>FACU species <u>166</u></td> <td>x 4 = <u>664</u></td> </tr> <tr> <td>UPL species <u>5</u></td> <td>x 5 = <u>25</u></td> </tr> <tr> <td>Column Totals: <u>181</u></td> <td>(A) <u>719</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A = <u>3.97</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>10</u>	x 3 = <u>30</u>	FACU species <u>166</u>	x 4 = <u>664</u>	UPL species <u>5</u>	x 5 = <u>25</u>	Column Totals: <u>181</u>	(A) <u>719</u> (B)	Prevalence Index = B/A = <u>3.97</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>10</u>	x 3 = <u>30</u>																			
FACU species <u>166</u>	x 4 = <u>664</u>																			
UPL species <u>5</u>	x 5 = <u>25</u>																			
Column Totals: <u>181</u>	(A) <u>719</u> (B)																			
Prevalence Index = B/A = <u>3.97</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <u>Tsuga canadensis</u>	25	Y	FACU																	
2. <u>Fagus grandifolia</u>	20	Y	FACU																	
3. <u>Picea rubens</u>	10	N	FACU																	
4. <u>Pinus strobus</u>	5	N	FACU																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	60	=Total Cover		Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum: (Plot size: <u>5</u>)																				
1. <u>Dennstaedtia punctilobula</u>	5	Y	UPL																	
2. <u>Medeola virginiana</u>	5	Y	FACU																	
3. <u>Dendrolycopodium obscurum</u>	5	Y	FACU																	
4. <u>Pinus strobus</u>	5	Y	FACU																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	20	=Total Cover		Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	0	=Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W404-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes No X

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/10/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W404-PFO
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.596 Long: -74.6614 Datum: _____
 Soil Map Unit Name: Nf - Neversink and Alden soils, very stony NWI classification: PFO
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: <u>X</u> No: _____ Hydric Soil Present? Yes: <u>X</u> No: _____ Wetland Hydrology Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>W404</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one required: check all that apply) <u> </u> Surface Water (A1) <u>X</u> High Water Table (A2) <u>X</u> Saturation (A3) <u>X</u> Water Marks (B1) <u> </u> Sediment Deposits (B2) <u> </u> Drift Deposits (B3) <u> </u> Algal Mat or Crust (B4) <u> </u> Iron Deposits (B5) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Sparsely Vegetated Concave Surface (B8) <u>X</u> Water-Stained Leaves (B9) <u>X</u> Aquatic Fauna (B13) <u> </u> Marl Deposits (B15) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Thin Muck Surface (C7) <u> </u> Other (Explain in Remarks)	Secondary indicators (minimum of two required) <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u>X</u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): _____ Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>2</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W404-PFO

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Acer rubrum</u>	80	Y	FAC	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	80	=Total Cover		
Sapling/Shrub Stratum: (Plot size: <u>15</u>)				
1. <u>Vaccinium corymbosum</u>	10	Y	FACW	
2. <u>Pinus strobus</u>	4	Y	FACU	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	14	=Total Cover		
Herb Stratum: (Plot size: <u>5</u>)				
1. <u>Osmunda claytoniana</u>	5	Y	FAC	
2. <u>Osmunda regalis</u>	2	Y	UPL	
3. <u>Vaccinium corymbosum</u>	1	N	FACW	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
	8	=Total Cover		
Woody Vine Stratum: (Plot size: <u>30</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
	0	=Total Cover		

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

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Domant Species That Are OBL, FACW, or FAC: 60 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>11</u>	x 2 = <u>22</u>
FAC species <u>85</u>	x 3 = <u>255</u>
FACU species <u>4</u>	x 4 = <u>16</u>
UPL species <u>2</u>	x 5 = <u>10</u>
Column Totals: <u>102</u> (A)	<u>303</u> (B)
Prevalence Index = B/A= <u>2.97</u>	

Hydrophytic Vegetation Indicators:

 1 - Rapid test for Hydrophytic Vegetation

 X 2 - Dominance Test is >50%

 X 3 - Prevalence Index is ≤3.0¹

 4 - Morphological Adaptations¹ (Profice supporting data in Remarks or on a separate sheet)

 Problematic Hydrophytic Vegetation (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.

Hydrophytic
Vegetation
Present?

Yes X No

SOIL

Sampling Point: W404-PFO

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

Indicators for Problematic Hydric Soils³:

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/09/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W402-UPL
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Convex Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140 , LRR R Lat: 41.5945 Long: -74.6601 Datum: _____
 Soil Map Unit Name: Nf - Neversink and Alden soils, very stony NWI classification: No

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: _____ No: <u>X</u> Hydric Soil Present? Yes: _____ No: <u>X</u> Wetland Hydrology Present? Yes: _____ No: <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>W402</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) ☐ 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)	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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W402-UPL

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u><i>Tsuga canadensis</i></u>	60	Y	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>50</u> (A/B)																
2. <u><i>Betula alleghaniensis</i></u>	25	Y	FAC																	
3. <u><i>Acer saccharum</i></u>	10	N	FACU																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	95	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC species <u>25</u></td> <td>x 3 = <u>75</u></td> </tr> <tr> <td>FACU species <u>85</u></td> <td>x 4 = <u>340</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>115</u> (A)</td> <td><u>425</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A= <u>3.70</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>5</u>	x 2 = <u>10</u>	FAC species <u>25</u>	x 3 = <u>75</u>	FACU species <u>85</u>	x 4 = <u>340</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>115</u> (A)	<u>425</u> (B)	Prevalence Index = B/A= <u>3.70</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>5</u>	x 2 = <u>10</u>																			
FAC species <u>25</u>	x 3 = <u>75</u>																			
FACU species <u>85</u>	x 4 = <u>340</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>115</u> (A)	<u>425</u> (B)																			
Prevalence Index = B/A= <u>3.70</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <u><i>Tsuga canadensis</i></u>	15	Y	FACU																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	15	=Total Cover																		
Herb Stratum: (Plot size: <u>5</u>)																				
1. <u><i>Vaccinium corymbosum</i></u>	5	Y	FACW	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	5	=Total Cover																		
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____	_____	_____	_____	Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	0	=Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W402-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:	Bedrock
Depth (inches):	14

Hydric Soil Present? Yes No X

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/09/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W402-PFO
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140 , LRR R Lat: 41.5945 Long: -74.6602 Datum: _____
 Soil Map Unit Name: Nf - Neversink and Alden soils, very stony NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present? Yes: <u>X</u> No: _____	If yes, optional Wetland Site ID: <u>W402</u>
Wetland Hydrology Present? Yes: <u>X</u> No: _____	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) ☐ 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)		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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>8</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

VEGETATION - Use scientific names of plants.

 Sampling Point: W402-PFO

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer rubrum</u>	55	Y	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>57</u> (A/B)																
2. <u>Betula alleghaniensis</u>	20	Y	FAC																	
3. <u>Tsuga canadensis</u>	15	N	FACU																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	90	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>25</u></td> <td>x 2 = <u>50</u></td> </tr> <tr> <td>FAC species <u>90</u></td> <td>x 3 = <u>270</u></td> </tr> <tr> <td>FACU species <u>62</u></td> <td>x 4 = <u>248</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>177</u> (A)</td> <td><u>568</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: right;">Prevalence Index = B/A= <u>3.21</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>25</u>	x 2 = <u>50</u>	FAC species <u>90</u>	x 3 = <u>270</u>	FACU species <u>62</u>	x 4 = <u>248</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>177</u> (A)	<u>568</u> (B)	Prevalence Index = B/A= <u>3.21</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>25</u>	x 2 = <u>50</u>																			
FAC species <u>90</u>	x 3 = <u>270</u>																			
FACU species <u>62</u>	x 4 = <u>248</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>177</u> (A)	<u>568</u> (B)																			
Prevalence Index = B/A= <u>3.21</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <u>Vaccinium corymbosum</u>	25	Y	FACW																	
2. <u>Fagus grandifolia</u>	10	Y	FACU																	
3. <u>Tsuga canadensis</u>	7	N	FACU																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	42	=Total Cover		Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum: (Plot size: <u>5</u>)																				
1. <u>Fagus grandifolia</u>	12	Y	FACU																	
2. <u>Osmunda claytoniana</u>	10	Y	FAC																	
3. <u>Tsuga canadensis</u>	10	Y	FACU																	
4. <u>Mitchella repens</u>	5	N	FACU																	
5. <u>Acer rubrum</u>	5	N	FAC																	
6. <u>Medeola virginiana</u>	3	N	FACU																	
7. _____				Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	45	=Total Cover																		
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____				Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																
2. _____																				
3. _____																				
4. _____																				
	0	=Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W402-PFO

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/10/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W409-PFO
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.6009 Long: -74.6592 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: PFO
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: <u>X</u> No: _____ Hydric Soil Present? Yes: <u>X</u> No: _____ Wetland Hydrology Present? Yes: <u>X</u> No: _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>W409</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one 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 on Living Roots (C3) ☐ 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)	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? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	

VEGETATION - Use scientific names of plants.

 Sampling Point: W409-PFO

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer rubrum</u>	40	Y	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B)																
2. <u>Betula alleghaniensis</u>	18	Y	FAC																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	58	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species <u>70</u></td> <td>x 1 = <u>70</u></td> </tr> <tr> <td>FACW species <u>18</u></td> <td>x 2 = <u>36</u></td> </tr> <tr> <td>FAC species <u>68</u></td> <td>x 3 = <u>204</u></td> </tr> <tr> <td>FACU species <u>38</u></td> <td>x 4 = <u>152</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>194</u> (A)</td> <td><u>462</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A= <u>2.38</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>70</u>	x 1 = <u>70</u>	FACW species <u>18</u>	x 2 = <u>36</u>	FAC species <u>68</u>	x 3 = <u>204</u>	FACU species <u>38</u>	x 4 = <u>152</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>194</u> (A)	<u>462</u> (B)	Prevalence Index = B/A= <u>2.38</u>	
Total % Cover of:	Multiply by:																			
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Column Totals: <u>194</u> (A)	<u>462</u> (B)																			
Prevalence Index = B/A= <u>2.38</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <u>Fagus grandifolia</u>	30	Y	FACU																	
2. <u>Pinus strobus</u>	8	Y	FACU																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	38	=Total Cover																		
Herb Stratum: (Plot size: <u>5</u>)																				
1. <u>Carex vulpinoidea</u>	40	Y	OBL	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> X</u> 2 - Dominance Test is >50% <u> X</u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain)																
2. <u>Scirpus cyperinus</u>	30	Y	OBL																	
3. <u>Parathelypteris noveboracensis</u>	10	N	FAC																	
4. <u>Rubus hispidus</u>	8	N	FACW																	
5. <u>Viola blanda</u>	5	N	FACW																	
6. <u>Dichanthelium clandestinum</u>	5	N	FACW																	
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	98	=Total Cover																		
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1. _____				Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
	0	=Total Cover		Hydrophytic Vegetation Present?																
Yes <u> X </u> No <u> </u>																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point: W409-PFO

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, 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) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes X No

Remarks:

WETLAND DETERMINATION DATA FORM — Northcentral and Northeast Region

Project/Site: Sullivan County Solar Project City/County: Sullivan County Sampling Date: 10/10/2023
 Applicant/Owner: RWE Renewables State: NY Sampling Point: W408-UPL
 Investigator(s): P. London, K. Shand Section, Township, Range: N/A
 Landform (hillslope, terrace, etc.): Plain Local relief (concave, convex, none): Convex Slope (%): <5%
 Subregion (LRR or MLRA): MLRA 140, LRR R Lat: 41.5925 Long: -74.6559 Datum: _____
 Soil Map Unit Name: WIC - Wellsboro and Wurtsboro soils, strongly sloping, extremely stony NWI classification: No
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes: _____ No: <u>X</u> Hydric Soil Present? Yes: _____ No: <u>X</u> Wetland Hydrology Present? Yes: _____ No: <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: <u>W408</u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary indicators (minimum of one required: check all that apply) <table style="width: 100%;"> <tr> <td>☐ Surface Water (A1)</td> <td>☐ Water-Stained Leaves (B9)</td> </tr> <tr> <td>☐ High Water Table (A2)</td> <td>☐ Aquatic Fauna (B13)</td> </tr> <tr> <td>☐ Saturation (A3)</td> <td>☐ Marl Deposits (B15)</td> </tr> <tr> <td>☐ Water Marks (B1)</td> <td>☐ Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td>☐ Sediment Deposits (B2)</td> <td>☐ Oxidized Rhizospheres on Living Roots (C3)</td> </tr> <tr> <td>☐ Drift Deposits (B3)</td> <td>☐ Presence of Reduced Iron (C4)</td> </tr> <tr> <td>☐ Algal Mat or Crust (B4)</td> <td>☐ Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td>☐ Iron Deposits (B5)</td> <td>☐ Thin Muck Surface (C7)</td> </tr> <tr> <td>☐ Inundation Visible on Aerial Imagery (B7)</td> <td>☐ Other (Explain in Remarks)</td> </tr> <tr> <td>☐ Sparsely Vegetated Concave Surface (B8)</td> <td></td> </tr> </table>	☐ 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)	☐ Iron Deposits (B5)	☐ Thin Muck Surface (C7)	☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Sparsely Vegetated Concave Surface (B8)		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)
☐ Surface Water (A1)	☐ Water-Stained Leaves (B9)																				
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Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>																				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:																					

VEGETATION - Use scientific names of plants.

 Sampling Point: W408-UPL

Tree Stratum: (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <i>Fagus grandifolia</i>	45	Y	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Domant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																
2. <i>Acer saccharum</i>	35	Y	FACU																	
3. <i>Betula lenta</i>	20	Y	FACU																	
4.																				
5.																				
6.																				
7.																				
	100	=Total Cover		Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 40%; text-align: left; padding: 5px;">Total % Cover of:</th> <th style="width: 60%; text-align: left; padding: 5px;">Multiply by:</th> </tr> <tr> <td style="padding: 5px;">OBL species <u>0</u></td> <td style="padding: 5px;"><u>x 1 = 0</u></td> </tr> <tr> <td style="padding: 5px;">FACW species <u>0</u></td> <td style="padding: 5px;"><u>x 2 = 0</u></td> </tr> <tr> <td style="padding: 5px;">FAC species <u>0</u></td> <td style="padding: 5px;"><u>x 3 = 0</u></td> </tr> <tr> <td style="padding: 5px;">FACU species <u>162</u></td> <td style="padding: 5px;"><u>x 4 = 648</u></td> </tr> <tr> <td style="padding: 5px;">UPL species <u>0</u></td> <td style="padding: 5px;"><u>x 5 = 0</u></td> </tr> <tr> <td style="padding: 5px;">Column Totals: <u>162</u> (A)</td> <td style="padding: 5px;"><u>648</u> (B)</td> </tr> <tr> <td colspan="2" style="padding: 5px;">Prevalence Index = B/A= <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	<u>x 1 = 0</u>	FACW species <u>0</u>	<u>x 2 = 0</u>	FAC species <u>0</u>	<u>x 3 = 0</u>	FACU species <u>162</u>	<u>x 4 = 648</u>	UPL species <u>0</u>	<u>x 5 = 0</u>	Column Totals: <u>162</u> (A)	<u>648</u> (B)	Prevalence Index = B/A= <u>4.00</u>	
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Column Totals: <u>162</u> (A)	<u>648</u> (B)																			
Prevalence Index = B/A= <u>4.00</u>																				
Sapling/Shrub Stratum: (Plot size: <u>15</u>)																				
1. <i>Fagus grandifolia</i>	40	Y	FACU																	
2. <i>Tsuga canadensis</i>	10	Y	FACU																	
3.																				
4.																				
5.																				
6.																				
7.																				
	50	=Total Cover																		
Herb Stratum: (Plot size: <u>5</u>)																				
1. <i>Fagus grandifolia</i>	10	Y	FACU	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Profice supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <i>Dendrolycopodium obscurum</i>	2	N	FACU																	
3.																				
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				
11.																				
12.																				
	12	=Total Cover																		
Woody Vine Stratum: (Plot size: <u>30</u>)																				
1.				Definitions of Four 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 vine – All woody vines greater than 3.28 ft in height.																
2.																				
3.																				
4.																				
	0	=Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet.)				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																

SOIL

Sampling Point: W408-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
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Indicators for Problematic Hydric Soils³:

- ☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
☐ Coast Prairie Redox (A16) (**LRR K, L, R**)
☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
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☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:	<u>Bedrock</u>
Depth (inches):	8

Hydric Soil Present?	Yes	No	X
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Remarks: