

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: <u>MARSH RIVER WIND FARM</u> Applicant/Owner: <u>MARSH RIVER LLC</u> Investigator: <u>DELAHUNTY, JORDEN/AND</u>	Date: <u>10/7/09</u> County: <u>Clinton</u> State: <u>NEW YORK</u>
Do Normal Circumstances exist on the site? <u>Yes</u> No Is the site significantly disturbed (Atypical Situation)? <u>Yes</u> No Is the area a potential Problem Area? <u>Yes</u> No (If needed, explain on reverse.)	Community ID: <u>WBRAND</u> Transect ID: <u>OH6007A</u> Plot ID: <u>SSI</u>

VEGETATION PFD/DEM (Deliberate) w/45 then PSS/DEM

Plant Community Classification: Percent Canopy Cover: Tree: <u>40</u> Shrub: <u>15</u> Herb: <u>80</u> Vine: <u>0</u>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. RED MAPLE	T/S	FAC	9. GLYCERIA SP	H	OBL
2. BALSAM FIR	T	FAC	10. MEADOW WET	S	FACW
3. GRASS BUSH	T	FAC	11. GOLD THREAD	H	FACW
4. SOFT BUSH	H	FACW	12.		
5. N. BUGLEWEED	H	OBL	13.		
6. SPHAGNUM	H	OBL*	14.		
7. EQUISETUM SP	H	FACW*	15.		
8. CAREX LURIDA	H	OBL	16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): <u>100%</u>					
Remarks: <u>OBL* PRESUMED OBLIGATE</u> <u>FACW* PRESUMED FACULTATIVE WET</u>					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): <u>2" in places</u> Depth to Free Standing Water in Pit (in.): <u>0"</u> Depth to Saturated Soil (in.): <u>0"</u>	
Remarks: <u>mapped DEC and NWI wetlands</u> <u>photo 18 => south</u>	

Date: 10/7/09
 Community ID: WETLAND
 Plot ID:

OH6007A-SSI

SOILS

Map Unit Name (Series and Phase):		Drainage Class:			
Taxonomy (SubGroup):		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-4	O	10YR 3/3	—	—	PEAT
4-8	A	2.5Y 2.5/1	—	—	silty clay
8-12	B	2.5Y 4/1	—	—	clay
Hydro Soil Indicators					
<input checked="" type="checkbox"/> Histosol <input checked="" type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks: <div style="font-size: 2em; font-family: cursive;">RETRIAL AT 12"</div>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Isolated?	Yes	No
Wetlands Hydrology Present?	Yes	No			
Hydric Soils Present?	Yes	No	Is this Sample Station Point Within a Wetland? Yes No		
Remarks <div style="font-size: 1.5em; font-family: cursive;">MAPPED DEC AND NOT WETLANDS</div>					

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: <u>MARBLE RIVER WIND FARM</u> Applicant/Owner: <u>MARBLE RIVER LLC</u> Investigator: <u>DELANEY, SPRESANO</u>	Date: <u>10/7/09</u> County: <u>CLINTON</u> State: <u>NEW YORK</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID: <u>UPLAND</u> Transect ID: <u>OH6007A</u> Plot ID: <u>552</u>

VEGETATION UPLAND DEC / CONIFER MIX

Plant Community Classification: Percent Canopy Cover: Tree: <u>75</u> Shrub: <u>10</u> Herb: <u>10</u> Vine: <u>0</u>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>BALSAW FIR</u>	<u>T/S</u>	<u>FAC</u>	9. <u>BURNING BERRY</u>	<u>H</u>	<u>FAC-</u>
2. <u>RED MAPLE</u>	<u>T/S</u>	<u>FAC</u>	10. <u></u>		
3. <u>BLACK CHERRY</u>	<u>T</u>	<u>FACU</u>	11. <u></u>		
4. <u>SASSIPARILLA</u>	<u>H</u>	<u>UPL*</u>	12. <u></u>		
5. <u>WAXY FERN</u>	<u>H</u>	<u>FAC+</u>	13. <u></u>		
6. <u>CLUB MOSS</u>	<u>H</u>	<u>FAC</u>	14. <u></u>		
7. <u>TRIFOLIUM SP</u>	<u>H</u>	<u>-</u>	15. <u></u>		
8. <u>GRAIN RICE</u>	<u>T</u>	<u>FAC</u>	16. <u></u>		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): <u>7/10</u> <u>70%</u>					
Remarks: <u>UPL* PRESUMED UPLAND</u> <u>FACITATIVE DOMINATED</u>					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): <u>n/a</u> Depth to Free Standing Water in Pit (in.): <u>n/a</u> Depth to Saturated Soil (in.): <u>n/a</u>	
Remarks:	

Date: 10/17/09
 Community ID: UPLAND
 Plot ID:

OH6007A-SSA

SOILS

Map Unit Name (Series and Phase): _____ Drainage Class: _____
 Taxonomy (SubGroup): _____ Field Observations
 Confirm Mapped Type? Yes No

Profile Description:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A	7.5YR 4/1	—	—	Silty clay
6-18	B	2.5Y 5/2	5YR 3/4	Common/Just	CLAY

Hydro Soil Indicators

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:
 * oxidized Rhysosphere
 FAC DOMINANT

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Isolated? Yes No	n/a
Wetlands Hydrology Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sample Station Point Within a Wetland?	Yes <input checked="" type="radio"/> No
Hydric Soils Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No		

Remarks

**DATA FORM
ROUTINE WETLAND DETERMINATION
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Project Site: <u>MARBLE RIVER WIND FARM</u> Applicant/Owner: <u>MARBLE RIVER LLC</u> Investigator: <u>DELANEY, JACOB</u>	Date: <u>10/7/09</u> County: <u>Cattaraugus</u> State: <u>NEW YORK</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No (If needed, explain on reverse.)	Community ID: <u>WETLAND</u> Transect ID: <u>OH6007A</u> Plot ID: <u>SS3</u>

VEGETATION PSS1 DEW

Plant Community Classification: Percent Canopy Cover: Tree: <u>80</u> Shrub: <u>40</u> Herb: <u>05</u> Vine: <u>0</u>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>SILKY WILLOW</u>	<u>S</u>	<u>OBL</u>	9. <u>AMBLELM</u>	<u>T</u>	<u>FACW-</u>
2. <u>WOOD GRASS</u>	<u>H</u>	<u>FACW+</u>	10. <u>SOFT RUSH</u>	<u>H</u>	<u>FACW+</u>
3. <u>STEEPLE BUSH</u>	<u>S</u>	<u>FACW</u>	11. <u>NY ASTER</u>	<u>H</u>	<u>FACW+</u>
4. <u>MEADOW SWEET</u>	<u>S</u>	<u>FAC+</u>	12. <u>FLAT TOP ASTER</u>	<u>H</u>	<u>FACW</u>
5. <u>RED MAPLE</u>	<u>TLS</u>	<u>FAC</u>	13. <u>SP MAGNUM</u>	<u>H</u>	<u>OBL*</u>
6. <u>GRAY HEM</u>	<u>TLS</u>	<u>FAC</u>	14.		
7. <u>ASTBL SD</u>	<u>H</u>	<u>-</u>	15.		
8. <u>GLYCEMA SD</u>	<u>H</u>	<u>OBL</u>	16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): <u>100%</u>					
Remarks: <u>OBL*</u> <u>RECORDED VEG DATA ONLY TO DOCUMENT COVERAGE CHANGE WITH WETLANDS</u>					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): Depth to Free Standing Water in Pit (in.): Depth to Saturated Soil (in.):	
Remarks: <u>PHOTOS 19 → SOUTH</u>	

Date:
Community ID:
Plot ID:

SOILS

Map Unit Name (Series and Phase):		Drainage Class:			
Taxonomy (SubGroup):		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
Hydro Soil Indicators					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors			<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)		
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No	Isolated? Yes No	
Wetlands Hydrology Present?	Yes No		
Hydric Soils Present?	Yes No	Is this Sample Station Point Within a Wetland?	Yes No
Remarks			

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: <u>MARJIE RIVER WIND FALLOV</u> Applicant/Owner: <u>MARJIE RIVER LLC</u> Investigator: <u>DELAHUNTY, OROBES, SAND</u>	Date: <u>10/8/09</u> County: <u>Clinton</u> State: <u>NEW YORK</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID: <u>WETLANDS</u> Transect ID: <u>0 H600713</u> Plot ID: <u>SS1</u>

VEGETATION PFO/PSS/DEAN

Plant Community Classification: Percent Canopy Cover: Tree: <u>35</u> Shrub: <u>40</u> Herb: <u>80</u> Vine: <u>0</u>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>BAISALM FIR</u>	<u>TIS</u>	<u>FAC</u>	9.		
2. <u>RED MAPLE</u>	<u>TIS</u>	<u>FAC</u>	10.		
3. <u>SPHAGNUM MIN</u>	<u>H</u>	<u>OBL*</u>	11.		
4. <u>(LIND) GRAM</u>	<u>H</u>	<u>FACW+</u>	12.		
5. <u>MEADOW SWIFT</u>	<u>S</u>	<u>FAC+</u>	13.		
6. <u>GOLD THREAD</u>	<u>H</u>	<u>FACW</u>	14.		
7. <u>SOFT BULLH</u>	<u>H</u>	<u>FACW+</u>	15.		
8. <u>WOOD PEAR</u>	<u>H</u>	<u>FAC+</u>	16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): <u>100%</u>					
Remarks: <u>OBL* PRESUMED OBLIGATE</u>					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): <u>N/A</u> Depth to Free Standing Water in Pit (in.): <u>6"</u> Depth to Saturated Soil (in.): <u>0"</u>	
Remarks: <u>MAPS N/SIDE / NW1 WETLANDS</u> <u>PHOTO 23 => WNW</u>	

Date: 10/8/09
 Community ID: WETLANDS
 Plot ID: 0H6007B

SOILS

Map Unit Name (Series and Phase):		Drainage Class:			
Taxonomy (SubGroup):		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-2	O	7.5 YR 2.5/2	—	—	ORGANICS
2-5	A ₁	10 YR 2/1	—	—	Si H loam w/ORGANICS
5-10	A ₂	10 YR 3/1	—	—	Silty CLAY
10-16	B	2.5 YR 5/2	5 YR 4/4	common /medium /distinct	CLAY
Hydro Soil Indicators					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks: REFUSAL AT 16"					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Isolated? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetlands Hydrology Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Is this Sample Station Point Within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soils Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks MAPPED NWF / NYSDDC WETLANDS		

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: <u>MARBLE RIVER Wind Farm</u> Applicant/Owner: <u>MARBLE RIVER LLC</u> Investigator: <u>DELAHUNTY, OPPEL, SMO</u>	Date: <u>10/8/09</u> County: <u>CLINTON</u> State: <u>NEW YORK</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No (If needed, explain on reverse.)	Community ID: <u>UPLAN</u> Transect ID: <u>046007B</u> Plot ID: <u>552</u>

VEGETATION Amibex Forest

Plant Community Classification: _____
Percent Canopy Cover: Tree: 90 Shrub: 5 Herb: 5 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>HEMLOCK</u>	<u>T</u>	<u>FACU</u>	9. <u>GROUND PINE</u>	<u>H</u>	<u>FACU</u>
2. <u>RED MAPLE</u>	<u>T</u>	<u>FAC</u>	10.		
3. <u>AMER BEECH</u>	<u>T/S</u>	<u>FACU</u>	11.		
4. <u>WOOD PINE</u>	<u>H</u>	<u>FAC</u>	12.		
5. <u>WITCH HAZEL</u>	<u>H</u>	<u>FAC</u>	13.		
6. <u>WHORLED ASTER</u>	<u>H</u>	<u>UPL*</u>	14.		
7. <u>SALICINA</u>	<u>H</u>	<u>UPL*</u>	15.		
8. <u>CLUB MUSH</u>	<u>H</u>	<u>FAC</u>	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/10 (30%)

Remarks: UPL* PRESUMED UPLAND

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): _____ Depth to Free Standing Water in Pit (in.): _____ Depth to Saturated Soil (in.): _____	<p align="center"><u>N/A</u></p>
Remarks: _____	

Date: 10/8/09
 Community ID: Upland
 Plot ID: 046007B

SOILS

Map Unit Name (Series and Phase):		Drainage Class:			
Taxonomy (SubGroup):		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-4	A ₁	10YR 2/1	—	—	Silt clay w/ organic
4-10	A ₂	10YR 3/3	—	—	Silt loam
10-12	B	2.5Y 6/2	—	—	Sandy clay *
Hydro Soil Indicators					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks: * TAIC Refusal AT 12"					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Isolated? Yes No N/A
Wetlands Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is this Sample Station Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks		

Extension of WETLANDS OH5003

DATA FORM ROUTINE WETLAND DETERMINATION (1987 ACOE Wetlands Delineation Manual)

Project Site: <u>MARBLE RIVER WIND FARM</u> Applicant/Owner: <u>MARBLE RIVER LLC</u> Investigator: <u>DELAHUNTY ORRISIANO</u>	Date: <u>10/8/09</u> County: <u>Clinton</u> State: <u>NEW YORK</u>
Do Normal Circumstances exist on the site? <u>Yes</u> Is the site significantly disturbed (Atypical Situation)? <u>Yes</u> Is the area a potential Problem Area? <u>Yes</u> (If needed, explain on reverse.)	Community ID: <u>WETLANDS</u> Transect ID: <u>OH6007C</u> Plot ID: <u>551</u>

VEGETATION PFO / PEM

Plant Community Classification: Percent Canopy Cover: Tree: <u>60</u> Shrub: <u>10</u> Herb: <u>30</u> Vine: <u>0</u>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>EQUISSETUM SP</u>	<u>H</u>	<u>FACW*</u>	9. <u>NYMPHEA</u>	<u>H</u>	<u>FACW+</u>
2. <u>RED MAPLE</u>	<u>T/S</u>	<u>FAC</u>	10.		
3. <u>TRANSAM FIR</u>	<u>T</u>	<u>FAC</u>	11.		
4. <u>MIRACULUS</u>	<u>S</u>	<u>FACT</u>	12.		
5. <u>BUGIBLUEBERRY</u>	<u>H</u>	<u>OBL</u>	13.		
6. <u>CAREX SP</u>	<u>H</u>	<u>—</u>	14.		
7. <u>SENSITIVE FERN</u>	<u>H</u>	<u>FACW</u>	15.		
8. <u>GLYCYRIA SP</u>	<u>H</u>	<u>OBL</u>	16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): <u>100%</u>					
Remarks: <u>FACW* PRESUMED FACULTATIVE WET</u>					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): <u>N/A</u> Depth to Free Standing Water in Pit (in.): <u>6"</u> Depth to Saturated Soil (in.): <u>0"</u>	
Remarks: <u>- BUTTERBERRY TRUNKS</u> <u>SPHAGNUM in OTHER PORTIONS of WETLANDS</u> <u>PHOTO 24 -> NE</u>	

Date: 10/18/09
 Community ID: WERNM
 Plot ID: 0H16007C-551

SOILS

Map Unit Name (Series and Phase):		Drainage Class:			
Taxonomy (SubGroup):		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-4	A	10YR 2/1	—	—	Silty clay
4-8	B1	10YR 5/2	—	—	sandy clay
8-12	B2	2.5Y 5/2	10 YR 4/6	medium / distinct	clay
Hydro Soil Indicators					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Isolated?	Yes	No
Wetlands Hydrology Present?	Yes	No			
Hydric Soils Present?	Yes	No	Is this Sample Station Point Within a Wetland?	Yes	No
Remarks					
<p style="font-size: 1.2em;">MAPPED NOT WETLAND</p>					

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)

Project Site: <u>MARBLE RIVER WIND FARM</u> Applicant/Owner: <u>MARBLE RIVER LLC</u> Investigator: <u>DELAHUNTY, OPPENLAND</u>	Date: <u>10/8/09</u> County: <u>Clinton</u> State: <u>NEW YORK</u>
Do Normal Circumstances exist on the site? Yes <input checked="" type="radio"/> No <input type="radio"/> Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential Problem Area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed, explain on reverse.)	Community ID: <u>UPLAND</u> Transect ID: <u>OH6007C</u> Plot ID: <u>552</u>

VEGETATION

Plant Community Classification: Percent Canopy Cover: Tree: <u>70</u> Shrub: <u>30</u> Herb: <u>30</u> Vine: <u>0</u>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>BALDWIN FIR</u>	<u>T</u>	<u>FAC</u>	9. <u>HORNBARK</u>	<u>T</u>	<u>FACU-</u>
2. <u>BILL CHERRY</u>	<u>T</u>	<u>FACU</u>	10.		
3. <u>GRAY BIRCH</u>	<u>T/S</u>	<u>FAC</u>	11.		
4. <u>SUGAR MAPLE</u>	<u>T</u>	<u>FACU-</u>	12.		
5. <u>MEADOW SWEET</u>	<u>S</u>	<u>FAC+</u>	13.		
6. <u>R. STEMED BIRCH</u>	<u>H</u>	<u>FAC</u>	14.		
7. <u>WOOD PEAR</u>	<u>H</u>	<u>FAC</u>	15.		
8. <u>CLUB MUSH</u>	<u>H</u>	<u>FAC</u>	16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): <u>7/9</u> 78%					
Remarks: <div style="text-align: center; font-style: italic;">FAC DOMINANT SPECIES</div>					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): n/a Depth to Free Standing Water in Pit (in.): Depth to Saturated Soil (in.):	
Remarks:	

Date: 10/8/09
 Community ID: UPLAND
 Plot ID:

OH 6007C-SSQ

SOILS

Map Unit Name (Series and Phase):	Drainage Class:
Taxonomy (SubGroup):	Field Observations Confirm Mapped Type? Yes No

Profile Description: Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-6	A	7.5YR 3/3			Silt loam

Hydro Soil Indicators

<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)
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Remarks:

PERSAT AT 6"
VERY STONY

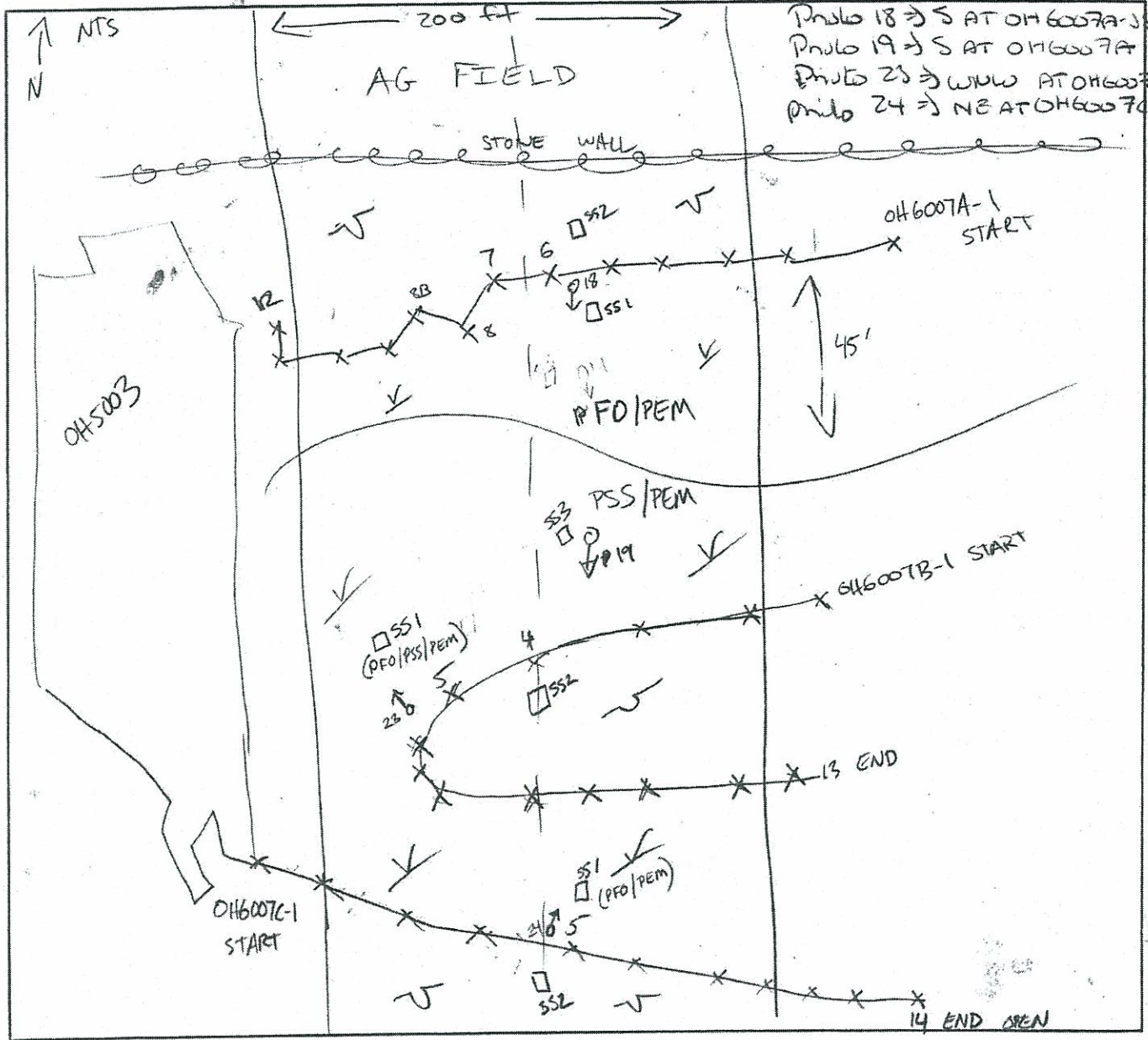
WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Isolated? Yes No	N/A
Wetlands Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is this Sample Station Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soils Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Remarks

WETLAND SKETCH FORM

Wetland ID/ Route #: OH6007A/B/C	Date: 10-7-09/10-9	Location: MR OH Main Corridor
Initials of Delineators: RD, DO	Photo ID & Direction:	



Legend:

	Wetland		Sample Station
	Upland		Flag
	Centerline		North Arrow
			Culvert
			Perennial Stream
			Intermittent Stream
	Photo Location & Direction		

PFO/PEM
PSS/PEM

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: <u>MARBLE RIVER WIND FARM</u> Applicant/Owner: <u>MARBLE RIVER LLC</u> Investigator: <u>DELANEY, OPREBYNO</u>	Date: <u>10/8/09</u> County: <u>Canton</u> State: <u>NEW YORK</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No (If needed, explain on reverse.)	Community ID: <u>WETLAND</u> Transect ID: <u>0116008A</u> Plot ID: <u>551</u>

VEGETATION PFO / PSS / DEW

Plant Community Classification: Percent Canopy Cover: Tree: <u>35</u> Shrub: <u>40</u> Herb: <u>85</u> Vine: <u>0</u>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>RED MAPLE</u>	<u>T IS</u>	<u>FAC</u>	9. <u>WILLOW HERB</u>	<u>H</u>	<u>OBL</u>
2. <u>NORTHERN WHITE CEDAR</u>	<u>T</u>	<u>FACW</u>	10.		
3. <u>SPECULATA RIVER</u>	<u>S</u>	<u>FACW+</u>	11.		
4. <u>MEADOW SWAMP</u>	<u>S</u>	<u>FAC+</u>	12.		
5. <u>AMERICAN BLM</u>	<u>T</u>	<u>FACW</u>	13.		
6. <u>CANE SP</u>	<u>H</u>	<u>—</u>	14.		
7. <u>ASTOR SP</u>	<u>H</u>	<u>—</u>	15.		
8. <u>SENSITIVE FERN</u>	<u>H</u>	<u>FACW</u>	16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): <u>100%</u>					
Remarks:					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): <u>6"</u> Depth to Free Standing Water in Pit (in.): <u>0"</u> Depth to Saturated Soil (in.): <u>0"</u>	
Remarks: <u>BURNED TRUNKS</u> <u>Photo 25 => S</u> <u>Photo 26 => N</u>	

Date: 10/18/09
 Community ID: WETLAND
 Plot ID: 016008A

SOILS

Map Unit Name (Series and Phase): _____ Drainage Class: _____
 Taxonomy (SubGroup): _____ Field Observations
 Confirm Mapped Type? Yes No

Profile Description: Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-4	A ₁	10YR 7/1	-	-	Silt loam w/ organic
4-12	A ₂	10YR 4/1	-	-	SANDY loam
12-18	R	10YR 5/1	10YR 5/6	com/mes/alt	clay

Hydro Soil Indicators

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Isolated? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetlands Hydrology Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Is this Sample Station Point Within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soils Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	

Remarks: MAPPED NYSDEC/NOT WETLAND

12

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: <u>MARBLE RIVER WIND FARM</u> Applicant/Owner: <u>MARBLE RIVER LLC</u> Investigator: <u>DELANEY OPPENHEIM</u>	Date: <u>10/8/09</u> County: <u>Clinton</u> State: <u>NEW YORK</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID: <u>UPLAND</u> Transect ID: <u>0H6008A</u> Plot ID: <u>SSR</u>

VEGETATION Conifer Forest

Plant Community Classification:					
Percent Canopy Cover: Tree: <u>85</u> Shrub: <u>10</u> Herb: <u>5</u> Vine: <u>0</u>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>RED BARNACLE</u>	<u>T/S</u>	<u>FAC</u>	9.		
2. <u>RED MAPLE</u>	<u>T</u>	<u>FAC</u>	10.		
3. <u>WHITE CEDAR</u>	<u>T</u>	<u>FACW</u>	11.		
4. <u>WIND FERN</u>	<u>H</u>	<u>FAC</u>	12.		
5. <u>OLD MAN</u>	<u>H</u>	<u>FAC</u>	13.		
6.			14.		
7.			15.		
8.			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-) 100%

Remarks: FOREST EDGE NORTH WHITE, Hemlock, Cold trends
FAC DOMINATED sp. ~ 12 YARD WIND

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): Depth to Free Standing Water in Pit (in.): Depth to Saturated Soil (in.):	<p><u>N/A</u></p>
Remarks:	

Date: 10/8/09
 Community ID: UPLANDS
 Plot ID: OH6008A

SOILS

Map Unit Name (Series and Phase):	Drainage Class:
Taxonomy (SubGroup):	Field Observations Confirm Mapped Type? Yes No

Profile Description:		Matrix Color	Mottle Colors	Mottles	Texture, Concretions,
Depth (Inches)	Horizon	(Munsell Moist)	(Munsell Moist)	Abundance/Size/ Contrast	Structure, etc.
0-6	A	10YR2/1	—	—	SILTAN

Hydro Soil Indicators

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:
 REVERSE AT 6"
 VERY SUNNY
 FAC Dominant

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Isolated?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A
Wetlands Hydrology Present?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Is this Sample Station Point Within a Wetland?			
Hydric Soils Present?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		

Remarks
 PFO { WIZYAN
 PFO / PSSIPON

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: <u>MARBLE RIVER WIND FARM</u> Applicant/Owner: <u>MARBLE RIVER LLC</u> Investigator: <u>DELAHUNTY, ORRISIANO</u>	Date: <u>10/8/09</u> County: <u>Clinton</u> State: <u>NEW YORK</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID: <u>WETLAND</u> Transect ID: <u>OH6008B</u> Plot ID: <u>SS1</u>

VEGETATION PFO / PSS / PEN

Plant Community Classification:					
Percent Canopy Cover: Tree: <u>40</u> Shrub: <u>60</u> Herb: <u>90</u> Vine: <u>0</u>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>RED MAPLE</u>	<u>T/S</u>	<u>FAC</u>	9. <u>Willow herb</u>	<u>H</u>	<u>OBL</u>
2. <u>SPECKLED BUDDE</u>	<u>S</u>	<u>FACW</u>	10. <u>Polypodium hydro.</u>	<u>H</u>	<u>OBL</u>
3. <u>BANANA TIL</u>	<u>T</u>	<u>FAC</u>	11.		
4. <u>CAIXOCINATA</u>	<u>H</u>	<u>OBL</u>	12.		
5. <u>BUSIENFER</u>	<u>H</u>	<u>OBL</u>	13.		
6. <u>GLYCERIA SP</u>	<u>H</u>	<u>OBL</u>	14.		
7. <u>CAREX SP</u>	<u>H</u>	<u>—</u>	15.		
8. <u>ASTER SP</u>	<u>H</u>	<u>—</u>	16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): <u>100%</u>					
Remarks:					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): <u>4'</u> Depth to Free Standing Water in Pit (in.): <u>0'</u> Depth to Saturated Soil (in.): <u>0'</u>	
Remarks: <u>marsh wetlands</u> <u>photo 27 S NE</u>	

Date: 10/8/09
 Community ID: WETLANDS
 Plot ID: OH6008B-551

SOILS

Map Unit Name (Series and Phase):		Drainage Class:			
Taxonomy (SubGroup):		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-8	A	10YR 4/1	—	—	Silty clay loam w/ organics
Hydro Soil Indicators					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks: REFUSAL AT 8"					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Isolated?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Wetlands Hydrology Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sample Station Point Within a Wetland?	
Hydric Soils Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Remarks: mapped wetlands (NYSDEC / NUS)			

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: <u>MARIE RIVER WIND FARM</u> Applicant/Owner: <u>MARIE RIVER LLC</u> Investigator: <u>DELANVAN OPPENHEIM</u>	Date: <u>10/8/09</u> County: <u>Clinton</u> State: <u>NEW YORK</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No (If needed, explain on reverse.)	Community ID: <u>UPLAND</u> Transect ID: <u>OH6008B</u> Plot ID: <u>SS2</u>

VEGETATION Conifer Forest

Plant Community Classification: Percent Canopy Cover: Tree: <u>30</u> Shrub: <u>20</u> Herb: <u>80</u> Vine: <u>0</u>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>TSPALM FIR</u>	<u>T/S</u>	<u>FAC</u>	9.		
2. <u>CANADA SPRUCE</u>	<u>H</u>	<u>FACW</u>	10.		
3. <u>RED PINE</u>	<u>H</u>	<u>FAC</u>	11.		
4. <u>BUTTERCUP</u>	<u>H</u>	<u>FAC</u>	12.		
5. <u>HAWKWEED</u>	<u>H</u>	<u>UPL*</u>	13.		
6. <u>SPRINKLER FERN</u>	<u>H</u>	<u>FACW</u>	14.		
7. <u>WOOD FERN</u>	<u>H</u>	<u>FAC</u>	15.		
8.			16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): <u>518</u> <u>6390</u>					
Remarks: <u>Recent Logging Activity</u> - <u>UPL* - PRESUMED UPLAND</u> - <u>FAC DOMINANT</u>					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): Depth to Free Standing Water in Pit (in.): <u>N/A</u> Depth to Saturated Soil (in.):	
Remarks:	

Date: 10/18/09
 Community ID: Upland
 Plot ID: OH 6008B

SOILS

Map Unit Name (Series and Phase):		Drainage Class:			
Taxonomy (SubGroup):		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-12	A	2.5Y 2.5/1	—	—	Silty CIA
12-18	B	10YR 5/3	5YR 4/4	FE ₂ /MED/HS	
Hydro Soil Indicators					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input checked="" type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Isolated?	Yes	No	N/A
Wetlands Hydrology Present?	Yes	No				
Hydric Soils Present?	Yes	No	Is this Sample Station Point Within a Wetland?	Yes	No	(No)
Remarks						

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: <u>MARLBIE RIVER WIND FARM</u> Applicant/Owner: <u>MARLBIE RIVER LLC</u> Investigator: <u>DELAHUNTY, ORPENIANO</u>	Date: <u>10/8/09</u> County: <u>Orlinda</u> State: <u>NEW YORK</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No (If needed, explain on reverse.)	Community ID: <u>WETLAND</u> Transect ID: <u>0H6008C</u> Plot ID: <u>SSI</u>

VEGETATION PSSI/PEM

Plant Community Classification: Percent Canopy Cover: Tree: <u>0</u> Shrub: <u>50</u> Herb: <u>90</u> Vine: <u>0</u>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>GLYCERIA SP</u>	<u>H</u>	<u>OBL</u>	9. <u>SPECIATED ANON</u>	<u>S</u>	<u>FACW</u>
2. <u>MORINGA SWEET</u>	<u>S</u>	<u>FAC +</u>	10. <u>R. STAMENED G. ROD</u>	<u>H</u>	<u>FAC</u>
3. <u>STEEPLE BUSH</u>	<u>S</u>	<u>FACW</u>	11.		
4. <u>LARGE LEAVED G. ROD</u>	<u>H</u>	<u>FAC</u>	12.		
5. <u>WOOD GRASS</u>	<u>H</u>	<u>FACW</u>	13.		
6. <u>BIG LEAF WEED</u>	<u>H</u>	<u>OBL</u>	14.		
7. <u>WIND GRASS</u>	<u>H</u>	<u>-</u>	15.		
8. <u>SILKY WITLOW</u>	<u>S</u>	<u>OBL</u>	16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-) <u>100%</u>					
Remarks: <u>MAJORITY COW PASTURE</u> - <u>SAMPLE STATION ON SOUTHERN EXTENT OF WETLAND</u>					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): <u>N/A</u> Depth to Free Standing Water in Pit (in.): <u>N/A</u> Depth to Saturated Soil (in.): <u>0'</u>	
Remarks: <u>MARGINAL HYDRO (SOUTHERN EXTENT)</u>	

Photo 28 -> WEST

Date: 10/8/09
 Community ID: WETLAND
 Plot ID: OH6008C-SS1

SOILS

Map Unit Name: (Series and Phase):		Drainage Class:			
Taxonomy (SubGroup):		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-14	A	10YR 2/2	3TR 4/4	FEW/MED/NT	Silty CL
Hydro Soil Indicators					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks: REFUSAL AT 14"					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Isolated?	Yes	No
Wetlands Hydrology Present?	Yes	No			
Hydric Soils Present?	Yes	No	Is this Sample Station Point Within a Wetland?	Yes	No
Remarks - TERMINALS in EARLY SUCCESSIONAL FIELD - mapped WETLAND (NADDEC/NLW)					

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: <u>MARLBIE RIVER WIND FARM</u> Applicant/Owner: <u>MARLBIE RIVER LLC</u> Investigator: <u>DELAHUNTY, OPRESIANO</u>	Date: <u>10/8/09</u> County: <u>CLINTON</u> State: <u>NEW YORK</u>
Do Normal Circumstances exist on the site? <u>Yes</u> No Is the site significantly disturbed (Atypical Situation)? <u>Yes</u> No Is the area a potential Problem Area? <u>Yes</u> No (If needed, explain on reverse.)	Community ID: <u>UPLAND</u> Transect ID: <u>OH608C</u> Plot ID: <u>SSR</u>

VEGETATION UPLAND DECID / CONIFER MIX

Plant Community Classification: <u>UPLAND DECID / CONIFER MIX</u>					
Percent Canopy Cover: Tree: <u>70</u> Shrub: <u>60</u> Herb: <u>50</u> Vine: <u>0</u>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Blackberry</u>	<u>T/S</u>	<u>FACU</u>	9. <u>ICEY maple</u>	<u>T</u>	<u>FAC</u>
2. <u>RIVERBANK VINE</u>	<u>T</u>	<u>FAC</u>	10. <u>INTERMEDIATE PINE</u>	<u>H</u>	<u>FAC</u>
3. <u>Apple</u>	<u>T</u>	<u>UPL*</u>	11. <u>oak</u>	<u>T</u>	<u>FACU</u>
4. <u>SUGAR BERRY</u>	<u>H</u>	<u>FAC-</u>			
5. <u>White pine</u>	<u>H</u>	<u>FAC</u>			
6. <u>WOOD PINE</u>	<u>H</u>	<u>FAC</u>			
7. <u>SPECIFIC BERRY</u>	<u>S</u>	<u>FACW</u>			
8. <u>WHITE CEDAR</u>	<u>T</u>	<u>FACW</u>			
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): <u>71%</u> <u>58%</u>					
Remarks: <u>UPL* PREVIOUS UPLAND SPECIES</u>					
<u>MIX OF UPLAND, FACULTATIVE & WETLAND PLANT SPECIES</u>					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): Depth to Free Standing Water in Pit (in.): Depth to Saturated Soil (in.):	<u>n/a</u>
Remarks:	

Date: 10/8/09
 Community ID: upland
 Plot ID: 6H60D8C-SS1

SOILS

Map Unit Name (Series and Phase):	Drainage Class:
Taxonomy (SubGroup):	Field Observations Confirm Mapped Type? Yes No

Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-8	A	10YR2/1	—	—	10AM

Hydro Soil Indicators

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:
 Reburial at 8"

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Isolated? Yes No	N/A
Wetlands Hydrology Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Is this Sample Station Point Within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Hydric Soils Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>		

Remarks

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: <u>MARIE RIVER Wind Farm</u>	Date: <u>10/8/09</u>						
Applicant/Owner: <u>MARIE RIVER LLC</u>	County: <u>Clinton</u>						
Investigator: <u>DELANEY, WADSWORTH</u>	State: <u>NEW YORK</u>						
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	<table border="0"> <tr> <td><input checked="" type="radio"/> Yes</td> <td><input type="radio"/> No</td> </tr> <tr> <td><input checked="" type="radio"/> Yes</td> <td><input type="radio"/> No</td> </tr> <tr> <td><input checked="" type="radio"/> Yes</td> <td><input type="radio"/> No</td> </tr> </table>	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Yes	<input type="radio"/> No
<input checked="" type="radio"/> Yes	<input type="radio"/> No						
<input checked="" type="radio"/> Yes	<input type="radio"/> No						
<input checked="" type="radio"/> Yes	<input type="radio"/> No						
	Community ID: <u>WETLAND</u> Transect ID: <u>046008C</u> Plot ID: <u>553</u>						

VEGETATION PSS/DEM

Plant Community Classification:					
Percent Canopy Cover: Tree: <u>0</u> Shrub: <u>50</u> Herb: <u>85</u> Vine: <u>0</u>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>GLYCEPOND SP</u>	<u>H</u>	<u>OBL</u>	9. <u>TRIALBERTIA</u>	<u>H</u>	<u>OBL</u>
2. <u>SPECULATA RIDER</u>	<u>S</u>	<u>FACW</u>	10. <u>WILLOW BRUSH</u>	<u>H</u>	<u>OBL</u>
3. <u>MEADOW Sweet</u>	<u>S</u>	<u>FAC+</u>	11. <u>STETSON BUSH</u>	<u>S</u>	<u>FACW</u>
4. <u>GRAY BUSH</u>	<u>S</u>	<u>FAC</u>	12. <u>WOOD GRASS</u>	<u>H</u>	<u>FACW</u>
5. <u>BREAK WILLOW</u>	<u>S</u>	<u>FACW</u>	13. <u>CRAY SO *</u>	<u>H</u>	<u>-</u>
6. <u>SENSITIVE FERN</u>	<u>H</u>	<u>FACW</u>	14.		
7. <u>SOFT BUSH</u>	<u>H</u>	<u>FACW</u>	15.		
8. <u>ARTIC SO</u>	<u>H</u>	<u>-</u>	16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC): <u>100%</u>					
Remarks: <u>NOT WETLAND</u>					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): <u>N/A</u> Depth to Free Standing Water in Pit (in.): <u>N/A</u> Depth to Saturated Soil (in.): <u>0</u>	
Remarks:	

Date: 12/8/09
 Community ID: OH6008
 Plot ID: 553

SOILS

Map Unit Name (Series and Phase):		Drainage Class:			
Taxonomy (SubGroup):		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-10	A	10 YR 4/1	5 YR 5/6	FEW med / AIST	Silty Clay loam
10-12	TR	10 YR 6/2	7.5 YR 4/4	Com / med / AIST	Clay
Hydro Soil Indicators					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Isolated?	Yes	No
Wetlands Hydrology Present?	Yes	No	Is this Sample Station Point Within a Wetland?		
Hydric Soils Present?	Yes	No	Yes	No	
Remarks					
mapped NYS DEC / NWT wetlands					

WETLAND SKETCH FORM

Wetland ID/ Route #: OH6008A/B/C	Date: 10-08-09	Location: MR OH Main Corridor
Initials of Delineators: RD, DO	Photo ID & Direction:	

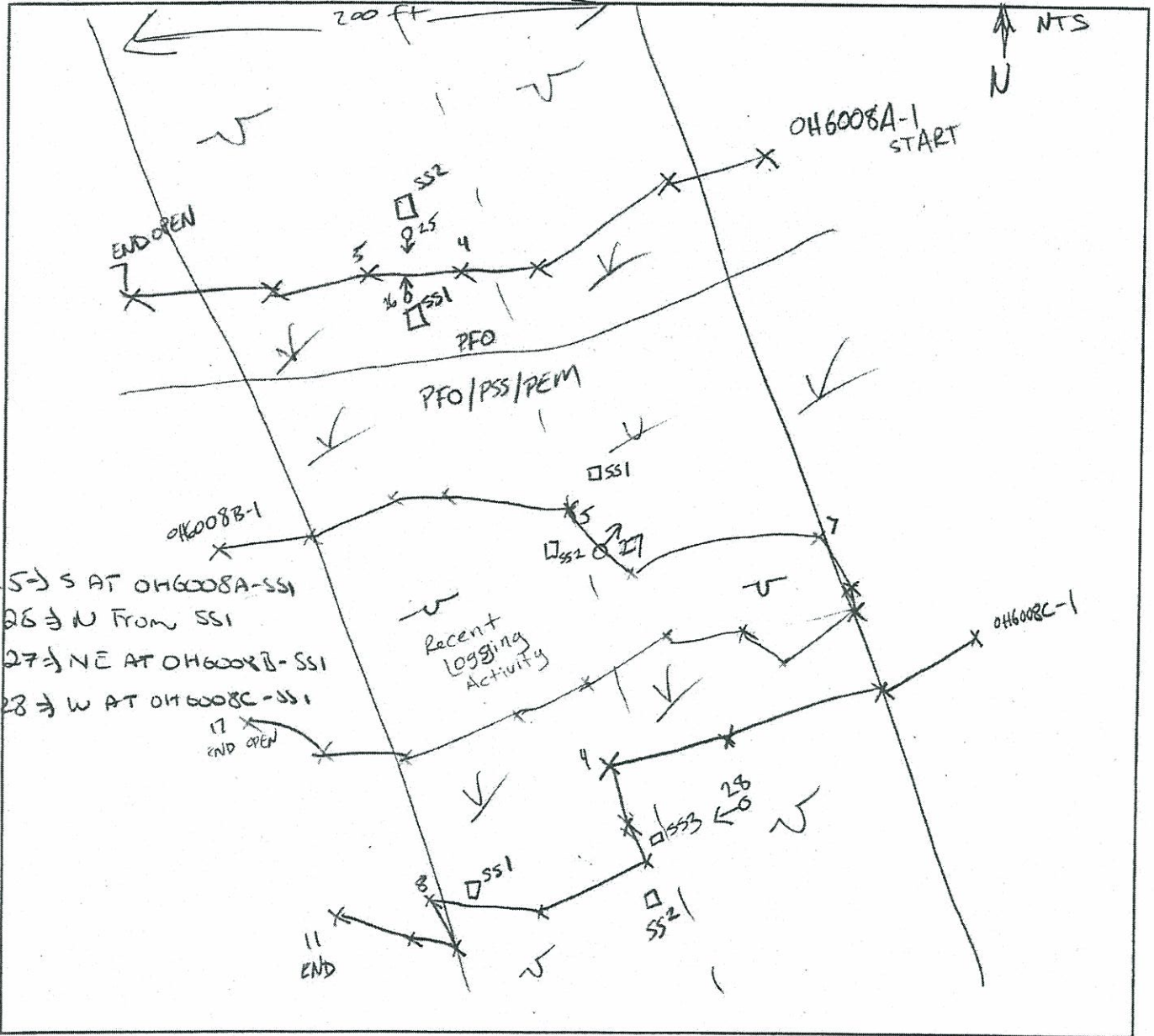


Photo 25 → S AT OH6008A-SS1
 Photo 26 → N From SS1
 Photo 27 → NE AT OH6008B-SS1
 Photo 28 → W AT OH6008C-SS1

Legend:			
	Wetland		Sample Station
	Upland		Flag
	Centerline		North Arrow
	Photo Location & Direction		Perennial Stream
			Intermittent Stream
			Culvert

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: <u>MARBLE RIVER WOOD FARM</u> Applicant/Owner: <u>MARBLE RIVER LLC</u> Investigator: <u>DELAUNA, JORDANO</u>	Date: <u>10/8/09</u> County: <u>CINCH</u> State: <u>NEW YORK</u>
Do Normal Circumstances exist on the site? <u>Yes</u> No Is the site significantly disturbed (Atypical Situation)? Yes <u>No</u> Is the area a potential Problem Area? Yes <u>No</u> (If needed, explain on reverse.)	Community ID: <u>OVERLAND</u> Transect ID: <u>OH6010</u> Plot ID: <u>SS1</u>

VEGETATION

PSS1PEW

Plant Community Classification: Percent Canopy Cover: Tree: <u>20</u> Shrub: <u>35</u> Herb: <u>90</u> Vine: <u>0</u>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>SILVER WILLOW</u>	<u>S</u>	<u>ORL</u>	9. <u>FULL MEADOW</u>	<u>H</u>	<u>ORL</u>
2. <u>MEADOWSWEET</u>	<u>S</u>	<u>FACW</u>	10. <u>SPRING BUSH</u>	<u>S</u>	<u>FACW</u>
3. <u>JELLY SP</u>	<u>H</u>	<u>ORL</u>	11. <u>ASTEL SP</u>	<u>H</u>	<u>-</u>
4. <u>SENSITIVE FERN</u>	<u>H</u>	<u>FACW</u>	12. <u>TEAL WOOD</u>	<u>H</u>	<u>FACW</u>
5. <u>NY ASTER</u>	<u>H</u>	<u>FACW</u>	13. <u>TEARTHUMB</u>	<u>H</u>	<u>ORL</u>
6. <u>Polygonum Hybrid</u>	<u>H</u>	<u>ORL</u>	14.		
7. <u>ORLEA CUNICATA</u>	<u>H</u>	<u>ORL</u>	15.		
8. <u>UMER SP. *</u>	<u>H</u>	<u>-</u>	16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC): <u>100%</u>					
Remarks: <u>* Not Lurda</u>					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): <u>N/A</u> Depth to Free Standing Water in Pit (in.): <u>2"</u> Depth to Saturated Soil (in.): <u>0"</u>	
Remarks: <u>MARBLE RIVER WOOD FARM NOT WET</u> <u>Photo 30 & 31</u>	

Date: 10/8/09
 Community ID: WERLAND
 Plot ID: OH6010-SSI

SOILS

Map Unit Name (Series and Phase):		Drainage Class:			
Taxonomy (SubGroup):		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-10	A	7.5YR 3/1	—	—	Silty Clay loam
Hydro Soil Indicators					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors			<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)		
Remarks: Revised at 10/11					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Isolated?	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Wetlands Hydrology Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Is this Sample Station Point Within a Wetland?		
Hydric Soils Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Remarks mapped ALYSDIC / NWF WERLAND					

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: MARSH RIVER WIND FARM Applicant/Owner: MARSH RIVER LLC Investigator: DELAUNY, J. P. [unclear]	Date: 10/8/09 County: CHAMPAIGN State: NEW YORK
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID: UPLAND Transect ID: OH 6010 Plot ID: 552

VEGETATION UPLAND FOREST EDGE

Plant Community Classification: Percent Canopy Cover: Tree: 20 Shrub: 50 Herb: 90 Vine: 0					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. RED MAPLE	T/S	FAC	9. STEEPLE BUSH	S	FACW
2. TRILCHERRY	T/S	FACW	10. ASTER SP	H	—
3. MEADOW SWEET	S	FACW	11.		
4. WHITE OAK	T	FACW	12.		
5. RIBES SP	S	—	13.		
6. T. STEMMED GRASS	H	FAC	14.		
7. UPRIGHT GRASS	H	—	15.		
8. STAGNATE	H	FACW	16.		
Percent of dominant species that are OBL, FACW, or FAC (excluding FAC-): 5/9 (56%)					
Remarks: FAC & FACW DOMINATED SPECIES					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): Depth to Free Standing Water in Pit (in.): Depth to Saturated Soil (in.):	
Remarks:	

Date: 10/8/09
 Community ID: Upland
 Plot ID: OH 6010-552

SOILS

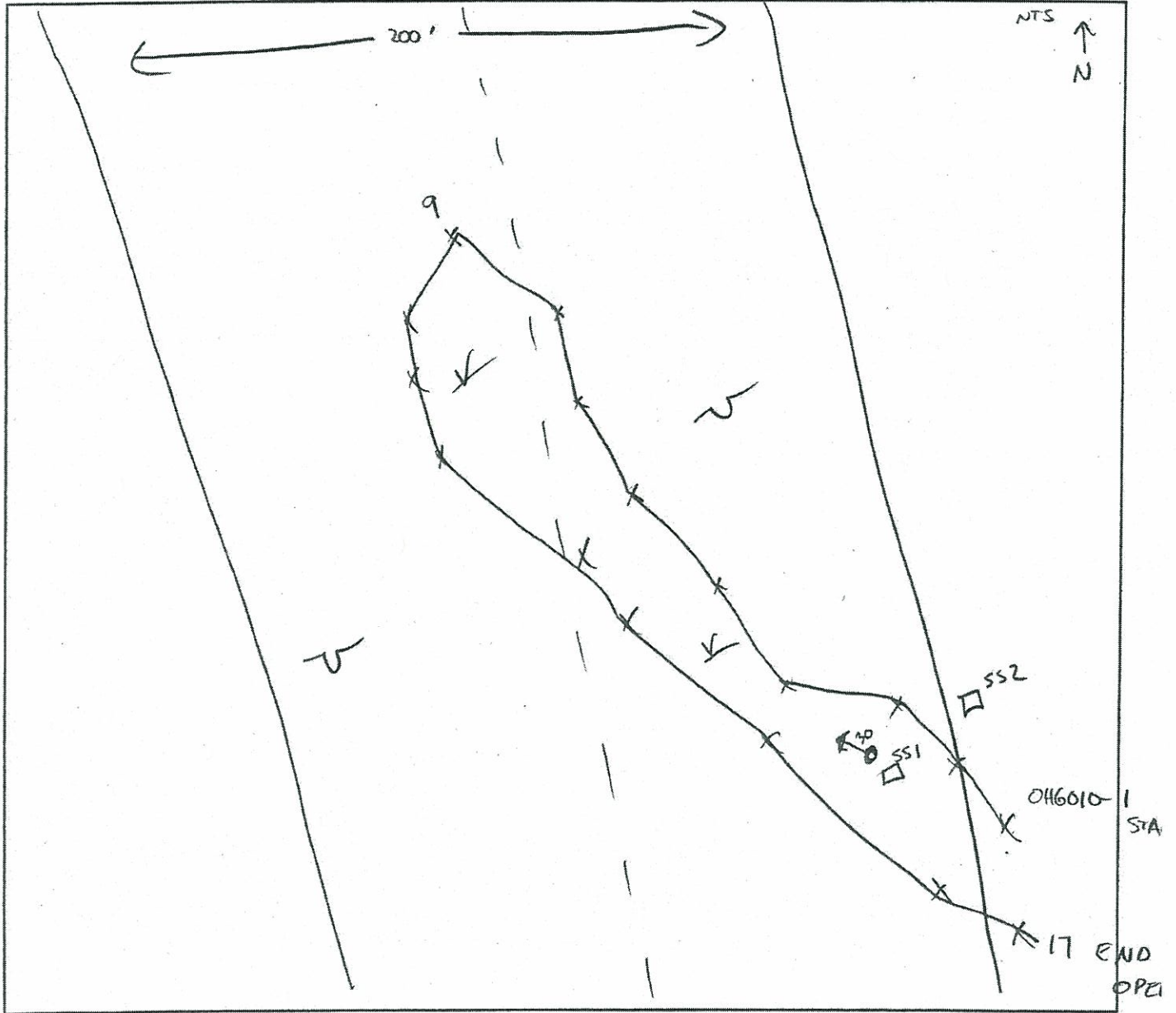
Map Unit Name (Series and Phase):		Drainage Class: —			
Taxonomy (SubGroup):		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-14	A	7.5YR 3/2	—	—	Silty clay
Hydro Soil Indicators					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors			<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)		
Remarks: Revised AT 1/4/9					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Isolated? Yes No	n/a
Wetlands Hydrology Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Is this Sample Station Point Within a Wetland?	Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soils Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>		
Remarks			

WETLAND SKETCH FORM

Wetland ID/ Route #: 046010	Date: 10-8-09	Location: MR Main Corridor
Initials of Delineators: RD, DO	Photo ID & Direction: Photo 30 ⇒ NORTHWEST	



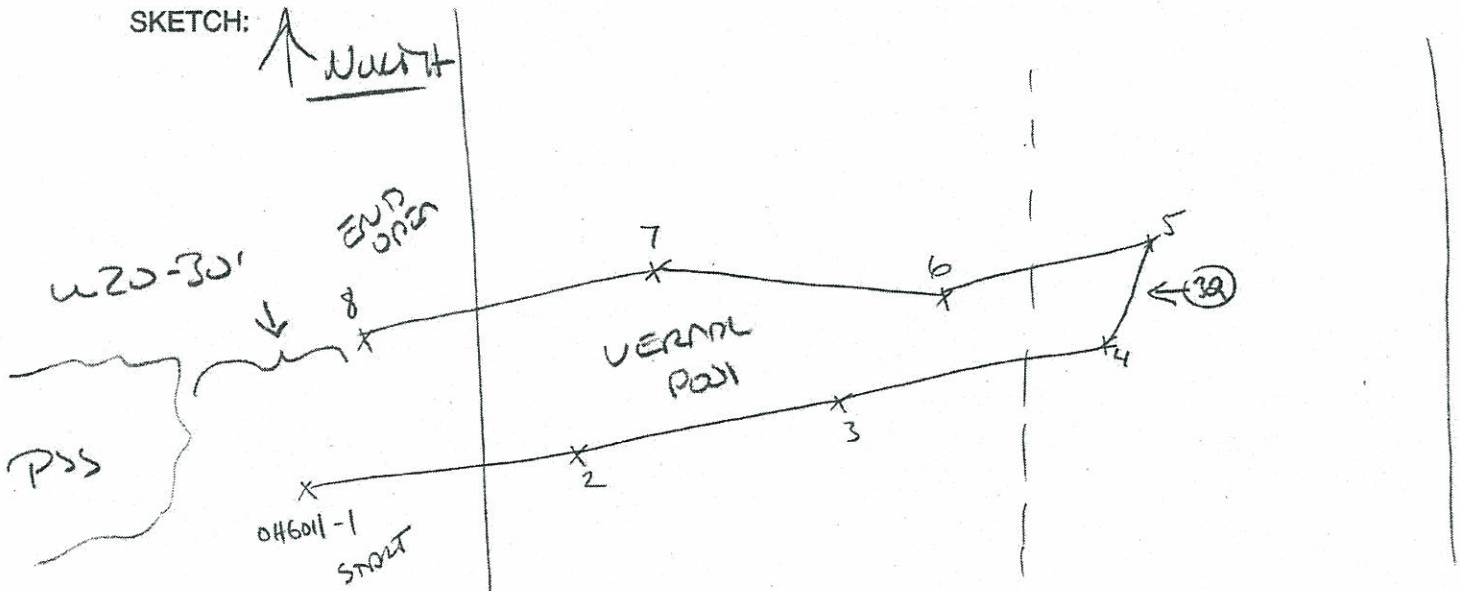
Legend:		
	Wetland	
	Upland	
	Centerline	
	Photo Location & Direction	

WATERBODY CROSSING DATA FORM

PROJECT: Marble River DATE: 10-9-09
 LOCATION: OH6011 FIELD CREW: RD, DD

WATERBODY ID	OH6011		
GPS FEATURE TYPE <small>(open/closed)(line/polygon)</small>	Polygon		
PHOTO ID and DIRECTION	32 → WEST		
NAME <small>(or tributary to)</small>	—		
WATERBODY TYPE <small>(stream/pond/ditch/culvert)</small>	VERNAL POOL		
FLOW REGIME <small>(perennial/intermittent/ephemeral)</small>	—		
WIDTH <small>(observed/OHW)</small>	—		
DEPTH <small>(observed/OHW)</small>	—		
FLOW RATE <small>(dry/stagnant/low/moderate/high)</small>	STAGNANT		
FLOW DIRECTION	EAST to POOL		
SUBSTRATE <small>(mud/silt/gravel/cobble/boulders/bedrock)</small>	Silt		
BANK VEGETATION <small>(upland/wetland cover type)</small>	Upland Decid		

SKETCH:



FISH AND WILDLIFE OBSERVATIONS:

NOTES:

ADJACENT VEG - OAKEN - TRAILM FIR; GRAY BIRCH
 PSS VEG u 20'-30' TO WEST incl:
 Silky willow, MEADOW SWEET, GRAY BIRCH

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: <i>MARLBIE RIVER Wind Farm</i> Applicant/Owner: <i>MARLBIE RIVER LLC</i> Investigator: <i>DELAHUNTY, MARISSA</i>	Date: <i>10/19/09</i> County: <i>CLINTON</i> State: <i>NEW YORK</i>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No (If needed, explain on reverse.)	Community ID: <i>WETLANDS</i> Transect ID: <i>OH 602A</i> Plot ID: <i>551</i>

VEGETATION *PSSIDEN*

Plant Community Classification: Percent Canopy Cover: Tree: <i>5</i> Shrub: <i>70</i> Herb: <i>95</i> Vine: <i>0</i>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>GRAY BIRCH</i>	<i>TIS</i>	<i>FAC</i>	9.		
2. <i>RED MAPLE</i>	<i>TIS</i>	<i>FAC</i>	10.		
3. <i>MEADOW SWEET</i>	<i>S</i>	<i>FAC+</i>	11.		
4. <i>SPHAGNUM num</i>	<i>H</i>	<i>OBL*</i>	12.		
5. <i>SOFT RUSH</i>	<i>H</i>	<i>FACW</i>	13.		
6. <i>TRIALUM TIL</i>	<i>S</i>	<i>FAC</i>	14.		
7.			15.		
8.			16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): <i>100%</i>					
Remarks: <i>OBL* PRESUMED OBLIBATE</i>					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): <i>N/A</i> Depth to Free Standing Water in Pit (in.): <i>N/A</i> Depth to Saturated Soil (in.): <i>0"</i>	
Remarks: <i>- mapped NWI and NYSDEC wetlands</i> <i>- SPHAGNUM MAT</i>	

PHOTO 33 → NORTH

Date: 10/9/09
 Community ID: WERAN
 Plot ID: OH6012A

SOILS

Map Unit Name (Series and Phase):		Drainage Class:			
Taxonomy (SubGroup):		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-2	O	10YR 3/2	—	—	ORGANIC
2-4	A	10YR 3/1	—	—	SILT LOAM w/ clay
Hydro Soil Indicators					
<input type="checkbox"/> Histosol <input checked="" type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks: REVERSAL AT 4"					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Isolated? Yes <input checked="" type="radio"/> No
Wetlands Hydrology Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sample Station Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Hydric Soils Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks: MAPPED NWE & NYSDEC WETLANDS		

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: <i>MARBIE RIVER WIND FARM</i> Applicant/Owner: <i>MARBIE RIVER LLC</i> Investigator: <i>DEANUNTY OPPESIANO</i>	Date: <i>10/8/09</i> County: <i>Clinton</i> State: <i>NEW YORK</i>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse.)	Community ID: <i>UPLAND</i> Transect ID: <i>OH6012A</i> Plot ID: <i>055A B-31</i>

VEGETATION *Cycifer Forest*

Plant Community Classification:					
Percent Canopy Cover: Tree: <i>85</i> Shrub: <i>10</i> Herb: <i>5</i> Vine: <i>0</i>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>TRAVELER FERN</i>	<i>TIS</i>	<i>FAC</i>	9.		
2. <i>RED MAPLE</i>	<i>T</i>	<i>FAC</i>	10.		
3. <i>WOOD FERN</i>	<i>H</i>	<i>FAC</i>	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): <i>100%</i>					
Remarks: <i>FAC Dominant</i>					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): Depth to Free Standing Water in Pit (in.): <i>n/a</i> Depth to Saturated Soil (in.):	
Remarks:	

Date: 10/9/09
 Community ID:
 Plot ID:

Upland
 OH6012A
 -SS1

SOILS

Map Unit Name (Series and Phase):	Drainage Class:
Taxonomy (SubGroup):	Field Observations Confirm Mapped Type? Yes No

Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-8	A	10 YR 3/1	5 YR 4/6	Few / coarse / distinct	Silt loam
8-12	B	10 YR 5/2	—	—	sandy clay

Hydro Soil Indicators

<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)
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Remarks:
 * mottles from 6-8"
 Redox at 12"

WETLAND DETERMINATION

FAC DOMINATED

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Isolated? Yes No	N/A
Wetlands Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is this Sample Station Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soils Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Remarks

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)**

Project Site: <u>MARBLE RIVER WIND FARM</u> Applicant/Owner: <u>MARBLE RIVER LLC</u> Investigator: <u>DELAHUNTY, OPREJINSKI</u>	Date: <u>10/9/09</u> County: <u>Clinton</u> State: <u>NEW YORK</u>
Do Normal Circumstances exist on the site? <u>Yes</u> No Is the site significantly disturbed (Atypical Situation)? <u>Yes</u> No Is the area a potential Problem Area? <u>Yes</u> No (If needed, explain on reverse.)	Community ID: <u>WELAND</u> Transect ID: <u>OH6012B</u> Plot ID: <u>SSI</u>

VEGETATION

PSSI PLOW

Plant Community Classification: Percent Canopy Cover: Tree: <u>25</u> Shrub: <u>75</u> Herb: <u>80</u> Vine: <u>0</u>					
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>RED MAPLE</u>	<u>T/S</u>	<u>FAC</u>	9. <u>NANAY BERRY</u>	<u>S</u>	<u>FAC</u>
2. <u>TOWHEE</u>	<u>S</u>	<u>FAC</u>	10. <u>L. BAH TIGER</u>	<u>S</u>	<u>FACW-</u>
3. <u>GRAY TIT</u>	<u>T/S</u>	<u>FAC</u>	11. <u>INTERMEDIATE FERN</u>	<u>H</u>	<u>FAC</u>
4. <u>SPRUE BLACK</u>	<u>T</u>	<u>FACW-</u>	12.		
5. <u>SOFT RUSH</u>	<u>H</u>	<u>FACW</u>	13.		
6. <u>SPHAGNUM</u>	<u>H</u>	<u>ORL*</u>	14.		
7. <u>GOLD THROAT</u>	<u>H</u>	<u>FACW</u>	15.		
8. <u>MEADOW SWEET</u>	<u>S</u>	<u>FACW</u>	16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): <u>12/13</u> <u>92%</u>					
Remarks: <u>SCATTERED PLOW AC FERN</u> <u>ORL* PERMANENT OBLIGATE</u>					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input checked="" type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): <u>N/A</u> Depth to Free Standing Water in Pit (in.): <u>N/A</u> Depth to Saturated Soil (in.): <u>0"</u>	
Remarks: - <u>MAPPED WETLANDS (NYSDEC/USACE)</u> - <u>SPHAGNUM</u> - <u>EXPOSED ROOTS</u>	

Photo 34 → SW

Date: 10/19/09
 Community ID: WETLAND
 Plot ID: OH 60123-SS 1

SOILS

Map Unit Name (Series and Phase):		Drainage Class:			
Taxonomy (SubGroup):		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-4	A	10YR 3/1	—	—	Silty clay w/organic
4-8	B	10YR 5/2	—	—	CLAY LOAM
Hydro Soil Indicators					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks: Refusal at 8"					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Isolated?	Yes	No
Wetlands Hydrology Present?	Yes	No	Is this Sample Station Point Within a Wetland?	Yes	No
Hydric Soils Present?	Yes	No			
Remarks maps NW 1/4 SEC WETLAND					

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 ACOE Wetlands Delineation Manual)

Project Site: <i>MARRIE RIVER Wind FARM</i> Applicant/Owner: <i>MARRIE RIVER LLC</i> Investigator: <i>DELAUNTY, ORRISANO</i>	Date: <i>10/9/09</i> County: <i>Clinton</i> State: <i>NEW YORK</i>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No (If needed, explain on reverse.)	Community ID: <i>UPLAND</i> Transect ID: <i>OH6012B</i> Plot ID: <i>552</i>

VEGETATION UPLAND DECID FOREST

Plant Community Classification:					
Percent Canopy Cover: Tree: <i>60</i> Shrub: <i>40</i> Herb: <i>10</i> Vine: <i>0</i>					
Dominant Plant Species:	Stratum	Indicator	Dominant Plant Species:	Stratum	Indicator
1. RED MAPLE	T/S	FAC	9. WOOD PERN	H	FAC+
2. RAINDERM FIR	S/H	FAC	10. AMBR BEECH	H	FACU
3. SASSAPILLA	H	FACU	11.		
4. BUNCH BERRY	H	FAC-	12.		
5. R. HES	H	-	13.		
6. LOW HUSH BLUEBERRY	S	FACU	14.		
7. GRAY HUSH	T/S	FAC	15.		
8. TRAILER FERN	H	FACU	16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): <i>7/12</i> <i>58%</i>					
Remarks: <i>Historic evidence of logging</i> <i>Young stands of trees < 4" DBH</i> <i>FAC & FACU</i> <i>DOMINATED</i>					

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns In Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): Depth to Free Standing Water in Pit (in.): <i>N/A</i> Depth to Saturated Soil (in.):	
Remarks:	

Date: 10/19/09
 Community ID: UPLAND
 Plot ID: 6H6012TS-SS2

SOILS

Map Unit Name (Series and Phase):	Drainage Class:
Taxonomy (SubGroup):	Field Observations Confirm Mapped Type? Yes No

Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-3	A	7.5 YR 2.5/1	—	—	Silty clay loam w/ aggrics
3-6	B	5 YR 4/6	—	—	clay

Hydro Soil Indicators

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content, Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

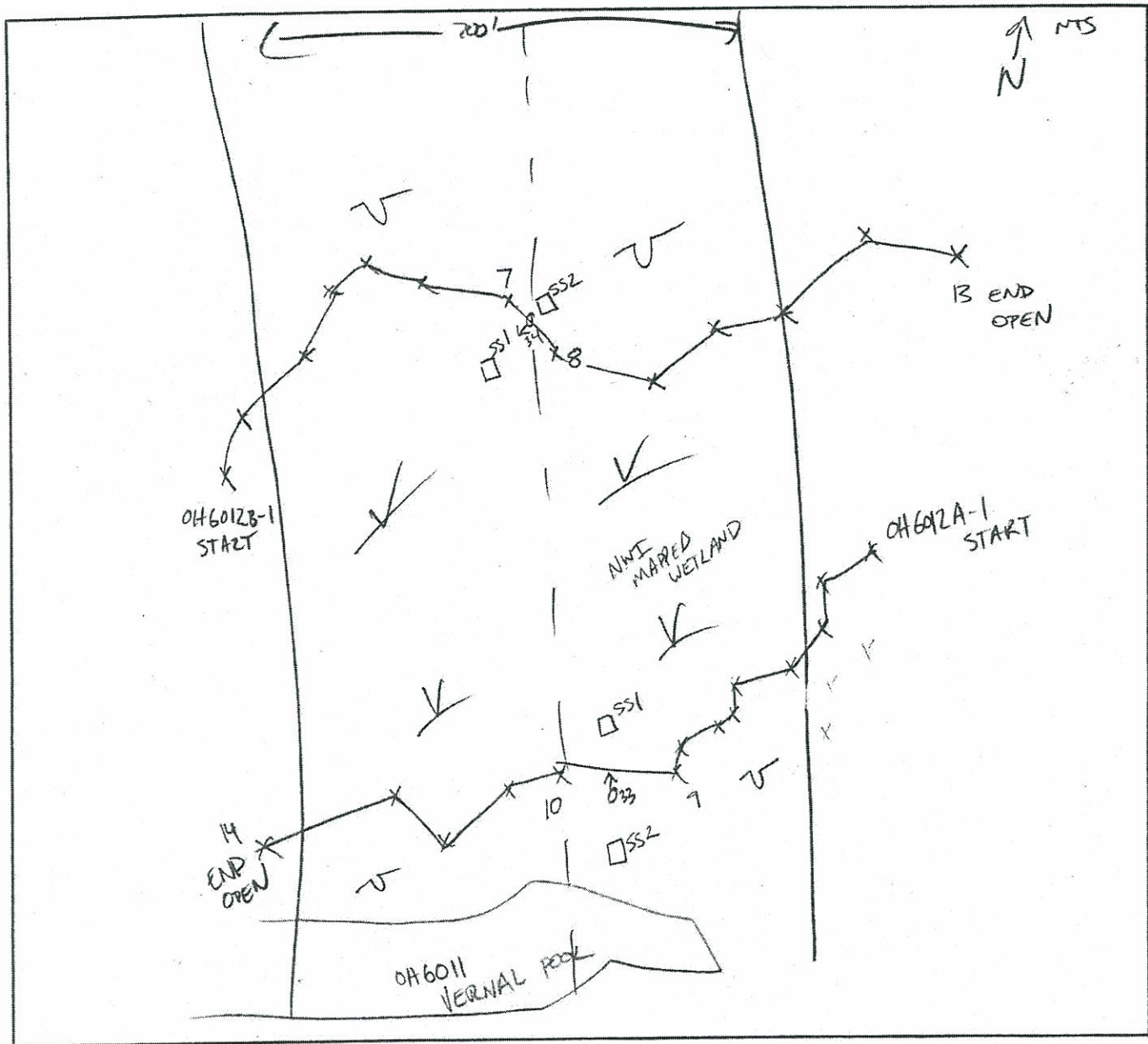
RAC 2 FACU DOMINATED

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Isolated? Yes No	<i>N/A</i>
Wetlands Hydrology Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Hydric Soils Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Is this Sample Station Point Within a Wetland?	<input checked="" type="radio"/> Yes <input type="radio"/> No

Remarks

WETLAND SKETCH FORM

Wetland ID/ Route #: OH6012A/B	Date: 10-9-09	Location: MR OH MAIN Corridor
Initials of Delineators: RD, DO	Photo ID & Direction: 33N, 34SW	



Legend:			
	Wetland		Sample Station
	Upland		Flag
	Centerline		North Arrow
	Photo Location & Direction		Perennial Stream
			Intermittent Stream
			Culvert