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

Project Site: Clinton County ~~/ Ellenburg~~ Wind Farm Applicant/Owner: Horizon Renewable Energy Investigator: SR, KH, JA	Date: 6 October 2005 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Transect ID: Plot ID: AR17A SS1

VEGETATION PEM

Plant Community Classification:
Percent Canopy Cover: Tree: 0 Shrub: 30 Herb: 80 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Spiraea tomentosa 20	shrub	FACW	9. Carex (multiple heads) 10	Herb	FAC with
2. Spiraea latifolia 5	Shrub	FAC+	10. Leontodon 20		NI
3. Salix species (many 5	Shrub	FACW	~~11. Polygonum hydropiperoides~~		
4. less)			12.		
~~5. Scirpus cyperinus 5~~	~~Herb~~		13.		
6. Juncus effusus 10	Herb	FACW+	14.		
~~7. Lycopus uniflorus 5~~	~~Herb~~		15.		
8 Agrostis stolon. 20	Herb	FACW	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 86

Remarks: Fallow for quite awhile - probably grazed within the past couple of years.

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: ___ Inundated ___ Saturated in upper 12 inches ___ Water Marks ___ Drift lines ___ Sediment Deposits ___ Drainage Patterns In Wetlands Secondary Indicators (2 or more required): ___ Oxidized Root Channels in Upper 12 inches ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ 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:

45
-1626

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	7.5YR 2.5/1	—		sandy loam, rocky

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
X Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content, Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks: Could not get deeper than 4" after multiple tries

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	(Yes)	No	(Circle)	(Circle)
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 COE Wetlands Delineation Manual)

Project Site: Clinton County ~~/ Ellenburg~~ Windfarm Applicant/Owner: Horizon Renewable Energy Investigator: SR KH JA	Date: 10-6-05 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Transect ID: Plot ID: AR17-A-SS-2 upland

VEGETATION Upland

Plant Community Classification:
Percent Canopy Cover: Tree: ∅ Shrub: ∅ Herb: 100% Vine: ∅

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Leontodon autumnalis	Herb	UPL*	9.		
2. Agrostis cf. stolonifera	Herb	FACW	10.		
3. Plantago major	Herb	FACU	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 33%

Remarks: Maintained open field

* not listed

HYDROLOGY

___ Recorded Data (Describe in Remarks):
- ___ Stream, Lake, or Tide Gauge
- ___ Aerial Photographs
- ___ Other

___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.):

Depth to Free Standing Water in Pit (in.):

Depth to Saturated Soil (in.):

Wetland Hydrology Indicators:
Primary Indicators:
- ___ Inundated
- ___ Saturated in upper 12 inches
- ___ Water Marks
- ___ Drift lines
- ___ Sediment Deposits
- ___ Drainage Patterns In Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 inches
- ___ Water-Stained Leaves
- ___ Local Soil Survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks: No wetland hydrology.

AR17A

SOILS

Map Unit Name
(Series and Phase):

Taxonomy (SubGroup):

Drainage Class:

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		10YR 2/2	-	-	clay loam

Hydro Soil Indicators

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

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes (No)	(Circle)	(Circle)
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 COE Wetlands Delineation Manual)

Project Site: Clinton Co Wastewater Applicant/Owner: Hurlan Investigator: KH, BJ	Date: 10/7/05 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Transect ID: Plot ID: AR 23A - SS1

VEGETATION

Plant Community Classification: PEM
Percent Canopy Cover: Tree: 15 Shrub: 0 Herb: 75 Vine: 10

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Aster vimineus	H	FAC	9.		
2. Betula populifolia	T	FAC	10.		
3. Impatiens capensis	H	FACW	11.		
4. Ulmus americana	T	FACW-	12.		
5. Carex sp	H	OBL	13.		
6. Arctium minus	H	NI	14.		
7. Sicyos angulatus	V	FACW	15.		
8 Polygonum scandens	V	FAC	16.		

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

Remarks:
Photo #5

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water (in.): 0
Depth to Free Standing Water in Pit (in.): 7 16"
Depth to Saturated Soil (in.): 7 16"

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated in upper 12 inches
___ Water Marks
✓ Drift lines
___ Sediment Deposits
✓ Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
✓ Oxidized Root Channels in Upper 12 inches
___ Water-Stained Leaves
___ Local Soil Survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

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.
0-6	A	10yr 4/3		None	Clay loam
6-12	A1	10yr 4/2	10yr 2/1	Numerous / large / distinct	Mn concretions
12-16	B	10yr 5/3			silty sand

Hydro Soil Indicators

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ✓ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ✓ Concretions
- ___ High Organic Content, Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	(Yes)	No	(Circle)	(Circle)
Wetlands Hydrology Present?	(Yes)	No		
Hydric Soils Present?	(Yes)	No	Is this Sample Station Point Within a Wetland?	(Yes) No
			Is this an Isolated Wetland?	Yes (No)

Remarks

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

Project Site: Clinton County Wind Applicant/Owner: HORTON Investigator: KH, GB	Date: 10/7/05 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Transect ID: Plot ID: TR 23 WB 552

VEGETATION

Plant Community Classification: upland
Percent Canopy Cover: Tree: Ø Shrub: 5 Herb: 95% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Sambucus canadensis	S	FACW-	9.		
2. Festuca elatior	H	FACW-	10.		
3. Phalaris arundinacea	H	FACW+	11.		
4. Galium mollugo	H	NI	12.		
5. Leontodon autumnalis	H	FACU	13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 40%

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
- ___ Stream, Lake, or Tide Gauge
- ___ Aerial Photographs
- ___ Other

___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): 0"

Depth to Free Standing Water in Pit (in.): >6"

Depth to Saturated Soil (in.): >6"

Wetland Hydrology Indicators:

Primary Indicators:
- ___ Inundated
- ___ Saturated in upper 12 inches
- ___ Water Marks
- ___ Drift lines
- ___ Sediment Deposits
- ___ Drainage Patterns In Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 inches
- ___ Water-Stained Leaves
- ___ Local Soil Survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks: Auger refusal @ 6"

ID:

SOILS

Map Unit Name
(Series and Phase):

Taxonomy (SubGroup):

Drainage Class:

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	10yr 3/2		none	clay loam Dry

Hydro Soil Indicators

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

Remarks: soil Dry, friable,

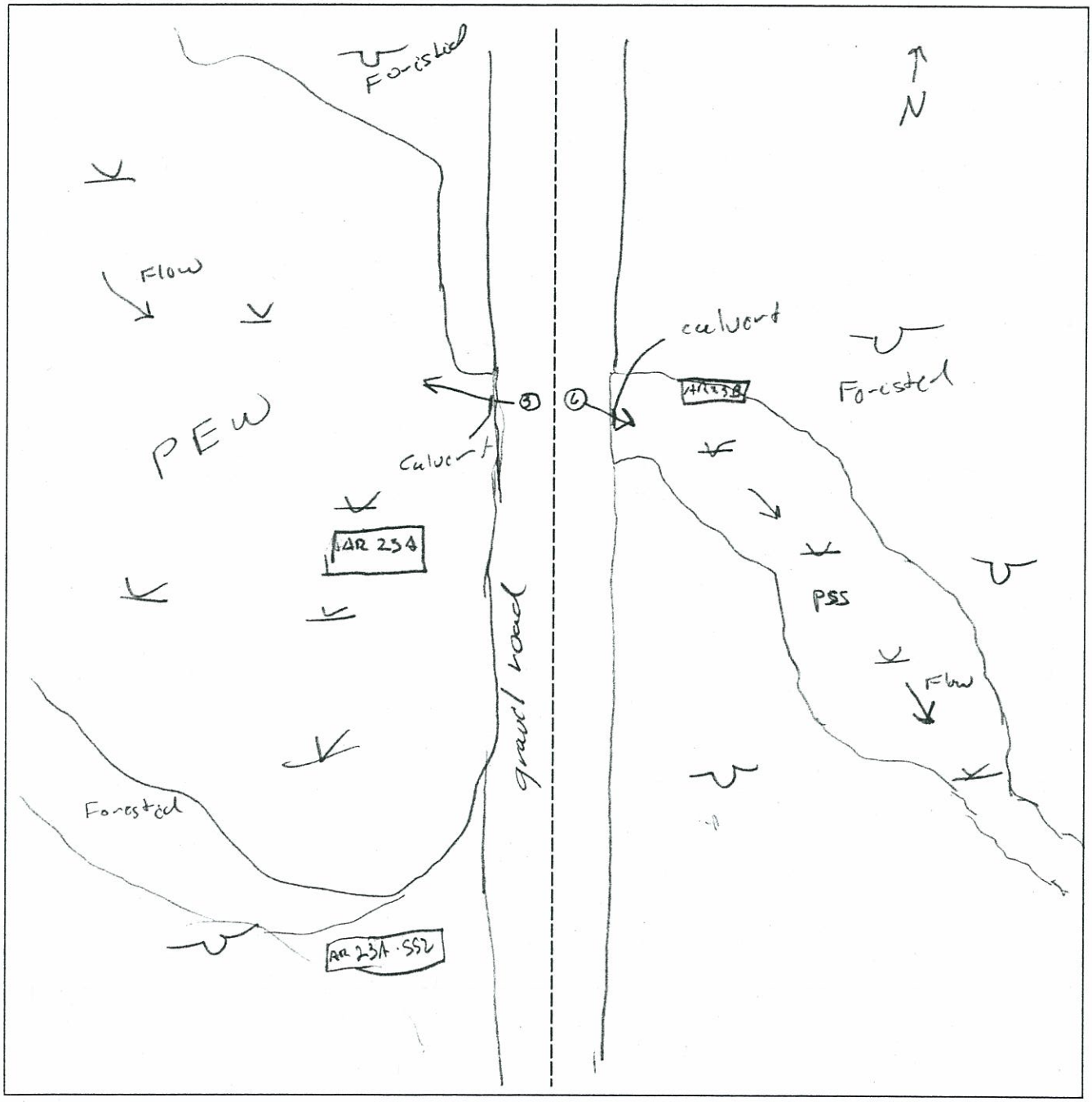
WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes (No)	(Circle)	(Circle)
Wetlands Hydrology Present?	Yes (No)		
Hydric Soils Present?	Yes (No)	Is this Sample Station Point Within a Wetland?	Yes No
		Is this an Isolated Wetland?	Yes No

Remarks

SKETCH FORM

Wetland ID/Route #: AR 23 A/B	**Date:** 10/7/05 **Time:**
Intials of Delineators: KH, GD	**Location:** Clinton County
Roll #: Cargo Camera **Frames:** 5+6	



Legend

Photo Location/Direction	Wetland
Sample Station	Upland
Centerline	Stream
Flag	Intermittent Stream

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: RD SC	Date: 7/11/06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: WETLAND Transect ID: AR911 A Plot ID: SS1

VEGETATION PFO

Plant Community Classification:
Percent Canopy Cover: Tree: 80% Shrub: 5% Herb: 55% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Red maple	T/S	FAC	9. Royal fern	H	
2. Yellow birch	T	FAC	10. Cicer milk weed	H	FACW+
3. Carex intumescence	H	FACW+	11.		
4. Carex sp.	H	—	12.		
5. Sphag mum	H	OBL*	13.		
6. Rattle snake grass	H	OBL	14.		
7. Interrupted fern	H	FAC	15.		
8 J. effusus	H	FACW+	16.		
Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-):					

Remarks:
Red maple wetland

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water (in.): n/A
Depth to Free Standing Water in Pit (in.): n/A
Depth to Saturated Soil (in.): 9"

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
✓ Saturated
✓ Water Marks
___ Drift lines
___ Sediment Deposits
___ Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
✓ Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
✓ Other (Explain in Remarks)

Remarks: Dry Algae Buttressing / exposed Roots

Date: 7/14/06
Community ID: WETLAND
Plot ID: AR911A-SS1

SOILS

Map Unit Name
(Series and Phase):

Taxonomy (SubGroup):

Drainage Class:

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_1	10YR 2/2	-	-	Silty Clay Loam
12-17	A_2	10YR 3/2	-	-	Silty Clay
17-18	B	10YR 5/2	-		Sandy Clay

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
✓ Reducing Conditions
✓ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content, Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

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

Remarks

photo ID = Soil for AR911A-5

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: RJ SC	Date: 7/11/06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: UPLAND Transect ID: AR9 11 A Plot ID: 552

VEGETATION UPLAND DECID FOREST

Plant Community Classification:
Percent Canopy Cover: Tree: 95% Shrub: 5% Herb: 60% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Red Maple	T/S	FAC	9.		
2. Wild Cherry	T	FACU	10.		
3. Amer Beech	S	FACU	11.		
4. Wood fern	H	FAC+	12.		
5. Canada Lily	H	FAC	13.		
6. TREE-like Clubmoss	H	FACU	14.		
7. Clubmoss	H	FAC	15.		
8			16.		

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

Remarks: FEW HEMLOCK TO SE ALONG EDGE OF WETLAND

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water (in.): N/A
Depth to Free Standing Water in Pit (in.): N/A
Depth to Saturated Soil (in.): N/A

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
___ Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
___ Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Date: 7/11/06
Community ID: Uplands
Plot ID: AR911A-SR2

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	—	—	Silt loam w/organics
4-12	B	7.5YR 6/2	—	—	loamy sands

Hydro Soil Indicators

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

Remarks:
Refusal of Auger at 12"

WETLAND DETERMINATION

Hydrophytic Vegetation Present? 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: Marble River Applicant/Owner: Marble River, LLC Investigator: RT, SC	Date: 7/11/06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: WETLAND Transect ID: AR9117S. Plot ID: SS1

VEGETATION PFO

Plant Community Classification:
Percent Canopy Cover: Tree: 80% Shrub: 5% Herb: 75% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Intermittent fern	H	FAC	9.		
2. Sharp mos	H	OBL*	10.		
3. Red maple	T/S	FAC	11.		
4. Carex intumescens	H	FACW+	12.		
5. Carex sp	H	—	13.		
6. Clearweed	H	FACW+	14.		
7. Balsam fir	S	FAC	15.		
8 Yellow birch	S	FAC	16.		

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water (in.): n/a
Depth to Free Standing Water in Pit (in.): 2"
Depth to Saturated Soil (in.): 0"

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
✓ Saturated to surface
___ Water Marks
___ Drift lines
___ Sediment Deposits
___ Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
✓ Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
✓ Other (Explain in Remarks)

Remarks: DRIFT MATE

Photo 11 & N for SS2

Date: 7/11/06
Community ID: WETLAND
Plot ID: AR9113-551

SOILS

Map Unit Name
(Series and Phase):

Taxonomy (SubGroup):

Drainage Class:

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.
0-18	A	10YR 2/1	—	—	Silt loam w/ organics

Hydro Soil Indicators

- ✓ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- ___ Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content, Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks: High Concentration of organics fill 18"

WETLAND DETERMINATION

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

Remarks

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: TCH, SC	Date: 7/11/06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Upl Ad Transect ID: AR9 11 R Plot ID: 552

VEGETATION (Upland Deciduous Forest)

Plant Community Classification:
Percent Canopy Cover: Tree: 90% Shrub: 10% Herb: 30% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Blackberry	H	FACU	9. Mulberry	H	FAC
2. Ground fern	H	FAC+	10.		
3. Tree-like Club moss	H	FACU	11.		
4. Mayapple	H	FAC	12.		
5. Bush honeysuckle	H		13.		
6. Red maple	T	FAC	14.		
7. Sugar maple	T/S	FACU-	15.		
8 American Beech	T	FACU	16.		

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
- ___ Stream, Lake, or Tide Gauge
- ___ Aerial Photographs
- ___ Other

___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): n/a

Depth to Free Standing Water in Pit (in.): n/a

Depth to Saturated Soil (in.): n/a

Wetland Hydrology Indicators:

Primary Indicators:
- ___ Inundated
- ___ Saturated
- ___ Water Marks
- ___ Drift lines
- ___ Sediment Deposits
- ___ Drainage Patterns In Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 inches
- ___ Water-Stained Leaves
- ___ Local Soil survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks:

Date: 7/11/06
Community ID: upland
Plot ID: AR911B-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.
0-4	A1	10YR 2/1	—	—	Silt loam w/ clay Admix
4-6	A2	10YR 5/3			LOAM
6-18	B	5YR 3/4	—	—	Silt loam

Hydro Soil Indicators

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

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	(No)
Wetlands Hydrology Present?	Yes	(No)
Hydric Soils Present?	Yes	(No)

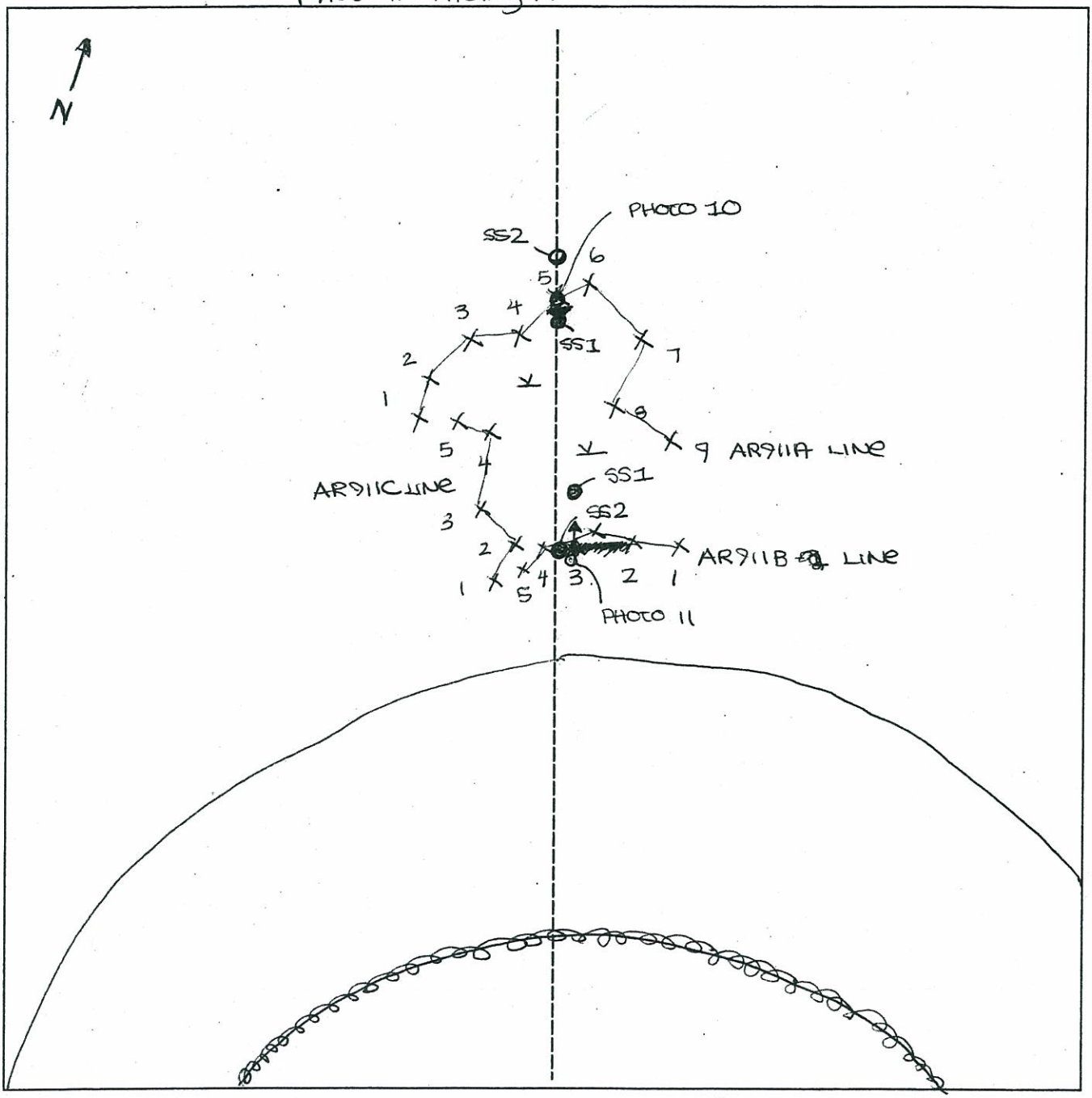
Is this Sample Station Point Within a Wetland? Yes (No)

Remarks

SKETCH FORM

Wetland ID/Route #: AR911A/B/C	Date: 7/11/06 Time:
Intials of Delineators: RD / SC	Location: MARBLE RIVER
Roll #: Frames: PHOTO 10 FACING S	

PHOTO 11 FACING N



Legend

- Photo Location/Direction
- Sample Station
- Centerline
- Flag
- Wetland
- Upland
- Stream
- Intermittent Stream

IC 922- A Series & B-Series
S01 – Wetland.

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

Project Site: Marble River Applicant/Owner: Marble River LLC Investigator: BR	Date: 5/22/06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FEO Transect ID: Plot ID: IC 922- A Series & B Series Wetland S01

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 65.5 Shrub: 0 Herb: 38.0 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Red maple	Tree	FAC	9.		
2. Grey Birch	Tree	FAC	10.		
3. Jewelweed Nod	Herb	FACW	11.		
4. Sensitive fern	Herb	FACW	12.		
5.			13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 4/4 = 100%

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): None

Depth to Free Standing Water in Pit (in.): Surface

Depth to Saturated Soil (in.): Surface.

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
X Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
X Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Date: 5/22/16
Community ID: PFO
Plot ID:
IC922 A 2 B Sumi
SS1 - Wetland

SOILS

Map Unit Name
(Series and Phase): N/A

Drainage Class: PD

Taxonomy (SubGroup): N/A

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	Ap	10YR 2/1	none	none	FSL
10-18	Bw1	10YR 5/2	10YR 6/6	many / med / Dist	SL

Hydro Soil Indicators

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- X Aquic Moisture Regime
- X Reducing Conditions
- X Gleyed or Low-Chroma Colors
- ___ Concretions
- ___ High Organic Content, Surface Layer in Sandy Soils
- ___ Organic Streaking in Sandy Soils
- ___ Listed on Local Hydric Soils List
- ___ Listed on National Hydric Soils List
- ___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (Yes) No
Wetlands Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No

Is this Sample Station Point Within a Wetland? (Yes) No

Remarks

Recent rain events may exaggerate hydrologic indicators

Upland

IC 922 - A and B Series

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

Project Site: Applicant/Owner: Investigator:	Date: 5/22/06 County: State:
Do Normal Circumstances exist on the site? Yes No Is the site significantly disturbed (Atypical Situation)? Yes No Is the area a potential Problem Area? Yes No (If needed, explain on reverse.)	Community ID: PFO Transect ID: Plot ID: IC 922 - A/B Series SS-2

Upland

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 85.5 Shrub: 63.0 Herb: 20.6 Vine:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Sugar Maple	Tree	FACU	9.		
2. Sugar Maple	Shrub	FACU	10.		
3. Blk Cherry	Shrub	FACU	11.		
4. Mayflower	Herb	FAC	12.		
5. Touch me Not	Herb	FACW	13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 1/5 = 20

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): None

Depth to Free Standing Water in Pit (in.): >16"

Depth to Saturated Soil (in.): >16"

Wetland Hydrology Indicators: None

Primary Indicators:
___ Inundated
___ Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
___ Drainage Patterns In Wetlands

Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
___ Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Date: 5/22/06
Community ID: PFO
Plot ID:
IC922 P/B Soils SFO

SOILS

Map Unit Name
(Series and Phase): N/A

Taxonomy (SubGroup): N/A

Drainage Class: WD

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	Bp	10YR 3/1	None	None	SL
8-16	Bw1	7.5YR 4/6	None	None	SL

Hydro Soil Indicators

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

Remarks:

WETLAND DETERMINATION

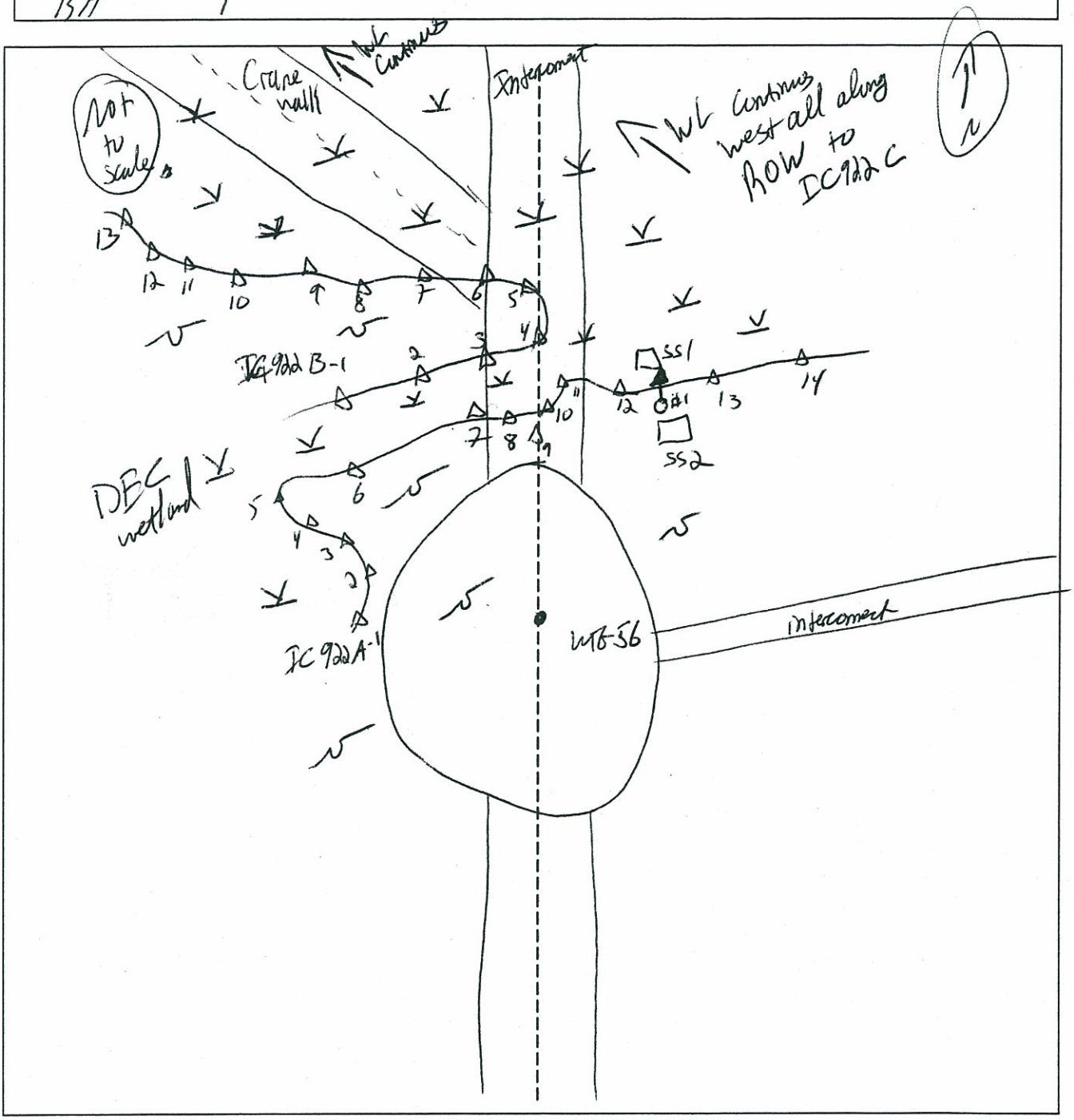
Hydrophytic Vegetation Present? Yes (No)
Wetlands Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

Is this Sample Station Point Within a Wetland? Yes (No)

Remarks

SKETCH FORM

Wetland ID/Route #: IC 922 A/B/E p1 of 2 (see IC922C Sheet)	**Date:** 5/22/06 **Time:**
Intials of Delineators: ISH, BR	**Location:** IC North of WTB 56
Roll #: ISH **Frames:** 1	

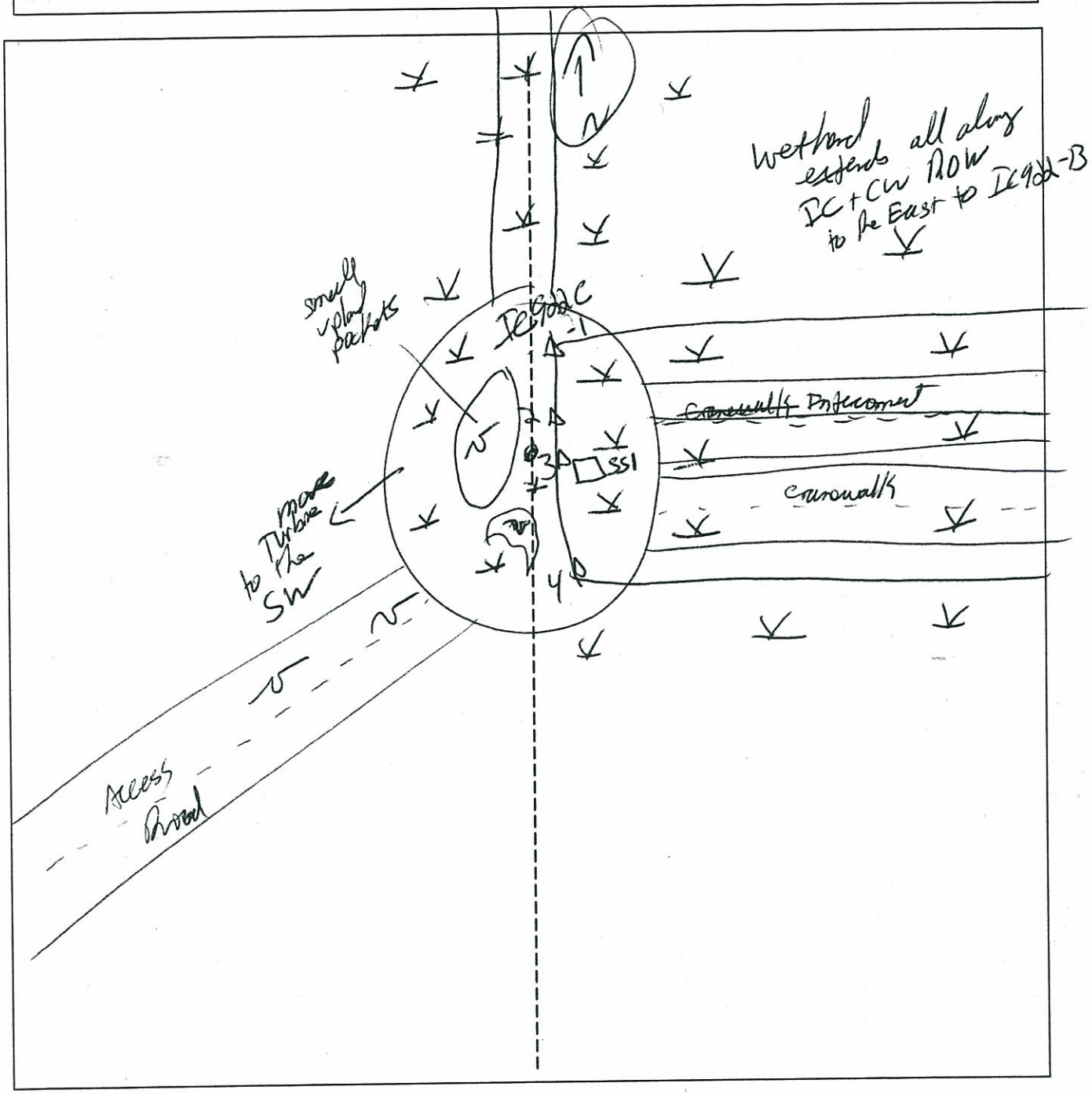


Legend

Photo Location/Direction	Wetland
Sample Station	Upland
Centerline	Stream
Flag	Intermittent Stream

SKETCH FORM

Wetland ID/Route #: IC922C (p2 of 2) see IC922A/B sheet	**Date:** 5/22/06 **Time:**
Intials of Delineators: KH, BR	**Location:** WB 55
Roll #: **Frames:**	



Legend

- Photo Location/Direction
- Sample Station
- Centerline
- Flag
- Wetland
- Upland
- Stream
- Intermittent Stream

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: SM / JV	Date: 8/4/06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Transect ID: Plot ID: C-979 A/BSS1

VEGETATION

Plant Community Classification: PFO 1/4
Percent Canopy Cover: Tree: 90 Shrub: 10 Herb: 40 Vine: —

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer rubrum	T	FAC	9. A. rubrum	H	FAC
2. Abies balsamae	T	FAC	10.		
3. Pinus strobus	T	FACU	11.		
4. Fraxinus pennsylvanica	T	FACW	12.		
5. A. balsamae	S	FAC	13.		
6. Dryopteris spinulosa	H	FAC+	14.		
7. Carex intumescens	H	FACW+	15.		
8 A. balsamae	H	FAC	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 8/9 = >50%

Remarks: also blueflag (Iris sp.), Juncus sp., & Spiraea

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
✓ Aerial Photographs
✓ Other DEC & TOPO
___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): —

Depth to Free Standing Water in Pit (in.): —

Depth to Saturated Soil (in.): 6"

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
✓ Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
✓ Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
✓ Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Date: 8/4/06
Community ID:
Plot ID: 1C-979 A/B - SS1

SOILS

Map Unit Name
(Series and Phase):

Taxonomy (SubGroup):

Drainage Class:

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 2/2			silty loam
4 - 14	B_1	10YR 4/2	7.5YR 5/8	common, coarse, distinct	silty clay loam
14 - 18	B_2	10YR 4/2	7.5YR 5/8	many, coarse, distinct	clay loam

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
✓ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content, Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (Yes) No
Wetlands Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No

Is this Sample Station Point Within a Wetland? (Yes) No

Remarks Photo #6 P8040006 to S (WL SS1)
#7 P8040007 to N (UPL SS2)

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: SM | JV	Date: 8/4/06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Transect ID: Plot ID: 1C-979 A/B-SS2

VEGETATION

Plant Community Classification: maple - fir forest
Percent Canopy Cover: Tree: 75 Shrub: 25 Herb: 60 Vine: —

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer rubrum	T	FAC	9. Fraxinus pennsylvanica	H	FACW
2. Pinus Strobus	T	FACU	10. P. strobus	H	FACU
3. Fagus grandifolia	T	FACU	11.		
4. A. rubrum	S	FAC	12.		
5. P. strobus	S	FACU	13.		
6. F. grandifolia	S	FAC	14.		
7. Maianthemum canadense	H	FAC-	15.		
8 Thelypteris noveboracensis	H	FAC	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 40%

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
✓ Other DEC + TOPO
___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): —

Depth to Free Standing Water in Pit (in.): —

Depth to Saturated Soil (in.): > 18

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
___ Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
___ Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
___ Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Date: 8/4/06
Community ID:
Plot ID: IC-979-A/B-SS 2

SOILS

Map Unit Name
(Series and Phase):

Taxonomy (SubGroup):

Drainage Class:

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.
0-1	Oe	10YR 2/2			duff
1-18	A	10YR 3/4	=	—	silt loam

Hydro Soil Indicators

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

Remarks:

WETLAND DETERMINATION

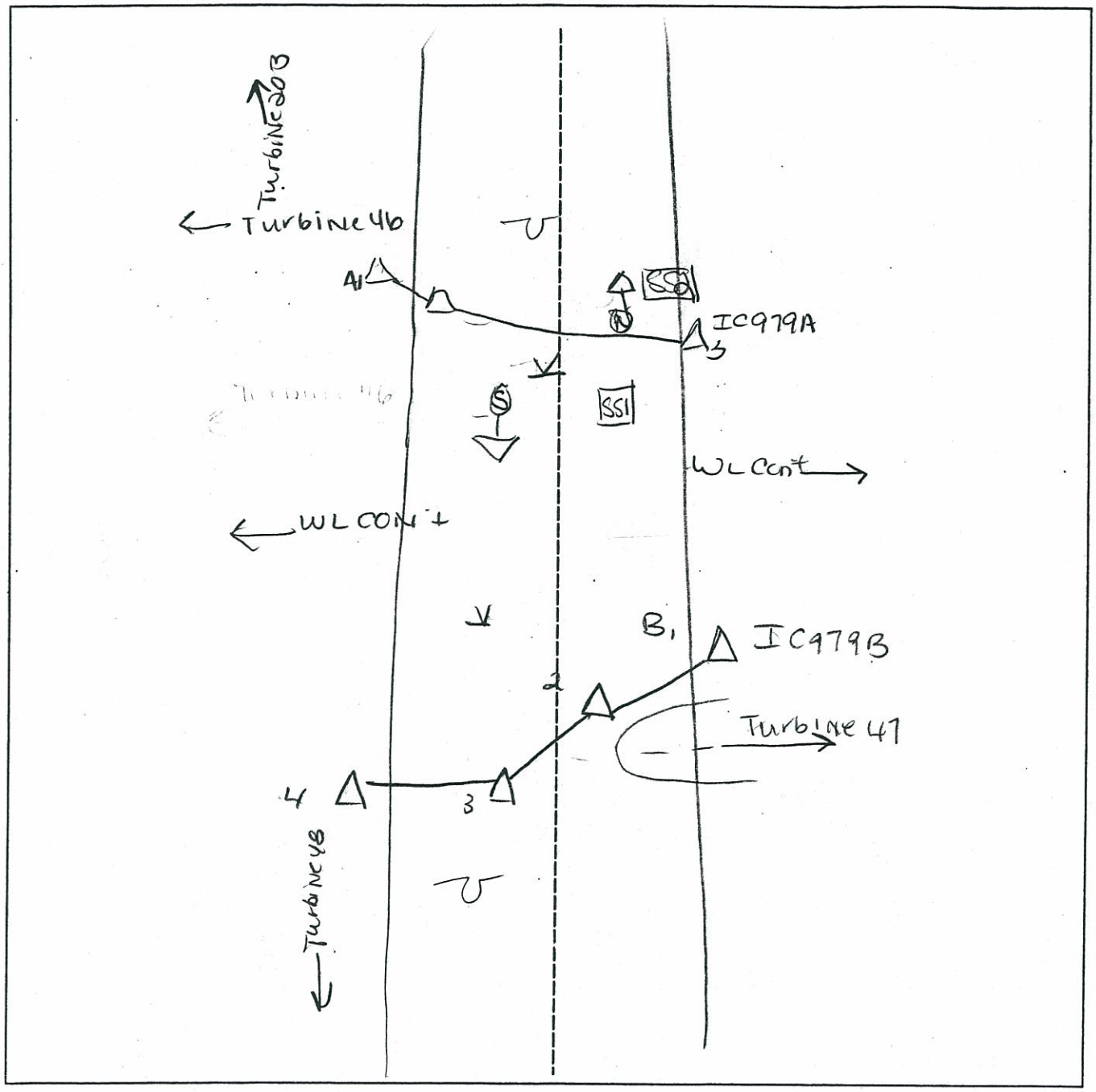
Hydrophytic Vegetation Present? Yes (No)
Wetlands Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

Is this Sample Station Point Within a Wetland? Yes (No)

Remarks: UPL Station photo P8040007 to N

SKETCH FORM

Wetland ID/Route #: IC979A/B	**Date:** 8-4-06 **Time:**
Intials of Delineators: SM TV	**Location:** IC/lt AR to turbine 48+203
Roll #: **Frames:**	



Legend

- Photo Location/Direction
- Sample Station
- Centerline
- Flag
- Wetland
- Upland
- Stream
- Intermittent Stream
- N

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: SM JV	Date: 8·17·06 County: Clinton State: NY
Do Normal Circumstances exist on the site? Yes (No) Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: PFO1 / PSS Transect ID: Plot ID: TC 987 A-SS1

VEGETATION

Plant Community Classification: Open Woods - PFO1 / PSS
Percent Canopy Cover: Tree: 20-60 Shrub: 60 Herb: 80-90 Vine: —

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer rubrum	T	FAC	9. Sphagnum >20%	H	OBL
2. Betula populifolia	T	FAC	10.		
3. Viburnum lantago	S	FAC	11.		
4. A. rubrum	S	FAC	12.		
5. Spiraea latifolia	S	FAC+	13.		
6. V. lantago	H	FAC	14.		
7. Carex stricta	H	OBL	15.		
8 C. vulpinoides	H	OBL	16.		

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

Remarks: Bracken fern adj to SS1, but beyond UL boundary

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
X Other TOPO/DEC
___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): N/A

Depth to Free Standing Water in Pit (in.): 3"

Depth to Saturated Soil (in.): 0"

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated — in places
X Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
___ Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
___ Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Date: 8-17-06
Community ID:
Plot ID: IC 987 A-SS1

SOILS

Map Unit Name
(Series and Phase):

Taxonomy (SubGroup):

Drainage Class:

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	O				Peat / organics
3-6	A/E	E - 10YR 5/1			Fine sandy loam
		A - 10YR 4/3			
6-12	B	10YR 4/3			Fine sandy clay loam

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors
___ Concretions
✓ High Organic Content, Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
✓ Other (Explain in Remarks)

Remarks: Refusal @ 12"

hydric soil: No upland veg present; Frequent ponding, soils saturated @ surface despite lack of recent heavy rains. Manganese streaking in A/E layer

WETLAND DETERMINATION

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

Remarks

P08170005 to S = SS1 (wetland)

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: SM JV	Date: 8.17.06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Upland Transect ID: Plot ID: IC987A-SS2

VEGETATION

Plant Community Classification: Open Woods
Percent Canopy Cover: Tree: 55%. Shrub: 40%. Herb: 90%. Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer rubrum	T	FAC	9. Maianthemum canadense	H	FAC-
2. Abies balsamae	T	FAC	10.		
3. Populus grandidentata	S	FACU-	11.		
4. Fagus grandifolia	S	FACU	12.		
5. Viburnum lantago	S	FAC	13.		
6. Pteridium aquilinum	H	FACU	14.		
7. Vaccinium corymbosa	H	FACU	15.		
8 Cornus canadensis	H	FAC-	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/9 < 50%.

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
X Other Topo / DEC
___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.):

Depth to Free Standing Water in Pit (in.):

Depth to Saturated Soil (in.): Upper 6"

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
✓ Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
___ Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
___ Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Date: 8.17.06
Community ID: Upland
Plot ID: EC987A-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.
0-1	O				Peat / organics
1-3	A	10YR 2/1			Fine sandy loam
3-4	E	10YR 4/3			Fine sandy silty clay
4-	B	10YR 6/1	10YR 5/8		Fine sandy silt

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
✓ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content, Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes (No)
Wetlands Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No

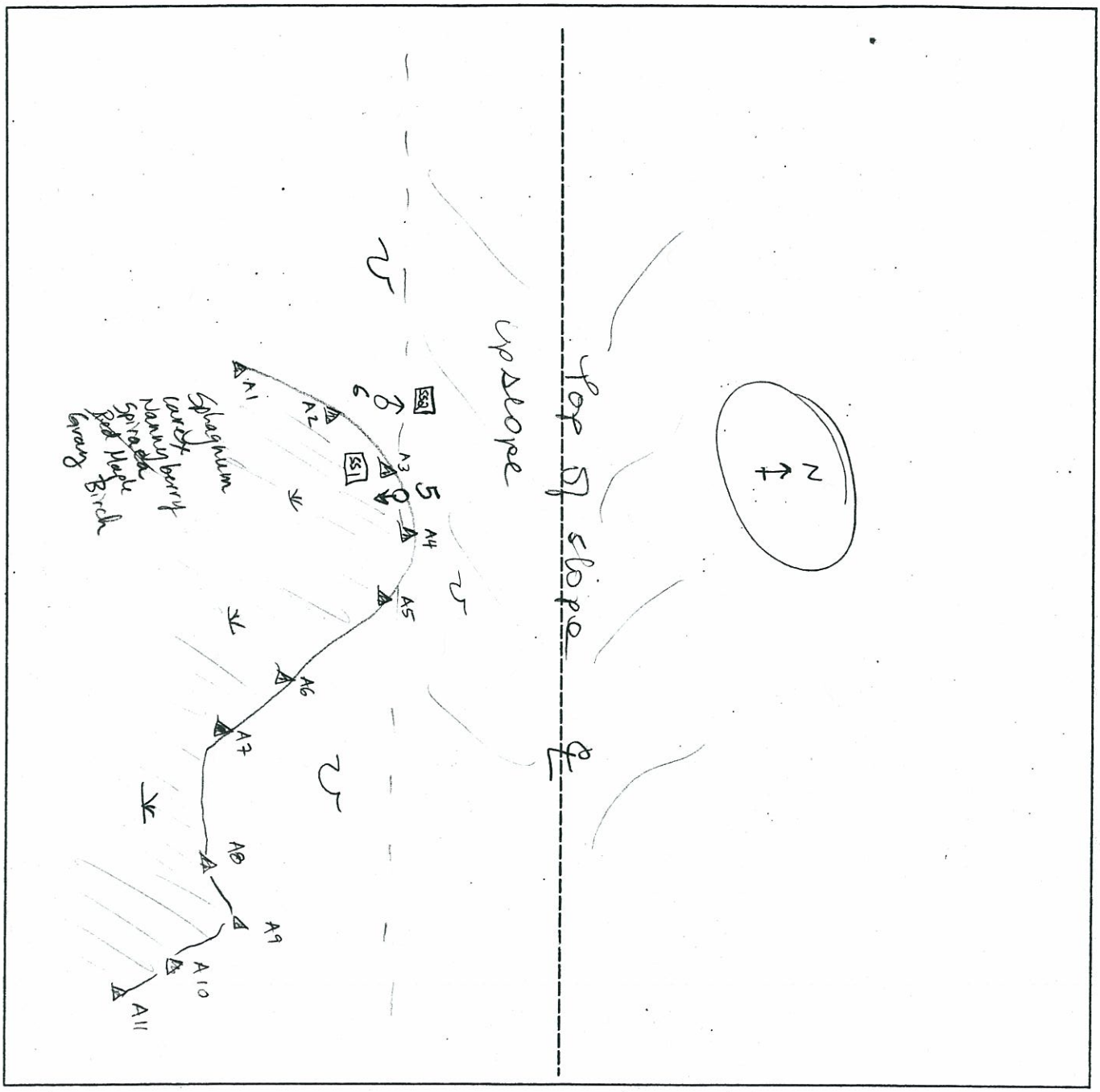
Is this Sample Station Point Within a Wetland? Yes (No)

Remarks

Photo P0817 0006 to N ≡ SS2

SKETCH FORM

Wetland ID/Route #:	Date:	Time:
IC-987-A	08-17-06	1430 h
Intials of Delineators: SM/JV	**Location:** IC B/W 173 and 120	
Roll #: **Frames:** P0817 0005 (SS1 to S) P0817 0006 (SS2 to N)		



Legend

- Photo Location/Direction
- Sample Station
- Centerline
- Flag
- Wetland
- Upland
- Stream
- Intermittent Stream

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: SM JV	Date: 8.17.06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: PFO1/PEM Transect ID: Plot ID: IC988A-SS1

VEGETATION

Plant Community Classification: Red Maple Forest / VeryOpenWoods
Percent Canopy Cover: Tree: 35%. Shrub: 15%. Herb: 90%. Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer rubrum	T	FAC	9.		
2. A. rubrum	S	FAC	10.		
3. Viburnum lentago	S	FAC	11.		
4. Carex crinita	H	OBL	12.		
5. Scirpus cyperinus	H	FACW+	13.		
6. Glyceria canadensis	H	OBL	14.		
7. Sparganium sp.	H	OBL	15.		
8 Dentaria cordata	H	OBL	16.		

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
X Other Topo/DEC
___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): 3"

Depth to Free Standing Water in Pit (in.): 0"

Depth to Saturated Soil (in.): 0"

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
___ Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
___ Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Date: 8-17-06
Community ID: PFO1/PEM
Plot ID: IC988A-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.
0-6	B	-	-	-	-

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content, Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
X Other (Explain in Remarks)

Remarks: Refusal @ 6". ponded water with wetland vegetation persistent throughout location. Bedrock under 6" layer of peat and organics.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (Yes) No
Wetlands Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No

Is this Sample Station Point Within a Wetland? (Yes) No

Remarks

photo #: 08170014 = 5

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: SM JV	Date: 8-17-06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: upland Transect ID: Plot ID: IC988A-552

VEGETATION

Plant Community Classification: open forest
Percent Canopy Cover: Tree: 40 %. Shrub: 20 %. Herb: 75 %. Vine: ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer rubrum	T	FAC	9.		
2. Betula populifolia	T	FAC	10.		
3. Acer rubrum	S	FAC	11.		
4. Fagus grandifolia	S	FACU	12.		
5. Pteridium aquilina	H	FACU	13.		
6. Maianthemum canadense	H	FAC-	14.		
7. Cornus canadensis	H	FAC-	15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/7 = <50 %.

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
X Other DEC / TOPO
___ No Recorded Data Available

Field Observations: None

Depth of Surface Water (in.):

Depth to Free Standing Water in Pit (in.):

Depth to Saturated Soil (in.):

Wetland Hydrology Indicators: none
Primary Indicators:
___ Inundated
___ Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
___ Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
___ Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

11

Date: 8-17-06
Community ID: upland
Plot ID: IC988A-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.
0-4	A	10YR 2/1	-	-	Sandy loam

Hydro Soil Indicators

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

Remarks: Refusal at 4"; Upland areas are sloped into wetland. No wetland vegetation present and soils are not saturated. Soils very shallow on slope between rocks and crevices. Could not obtain sample of "B" horizon for further investigation.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes (No)
Wetlands Hydrology Present? Yes (No)
Hydric Soils Present? (Yes) No

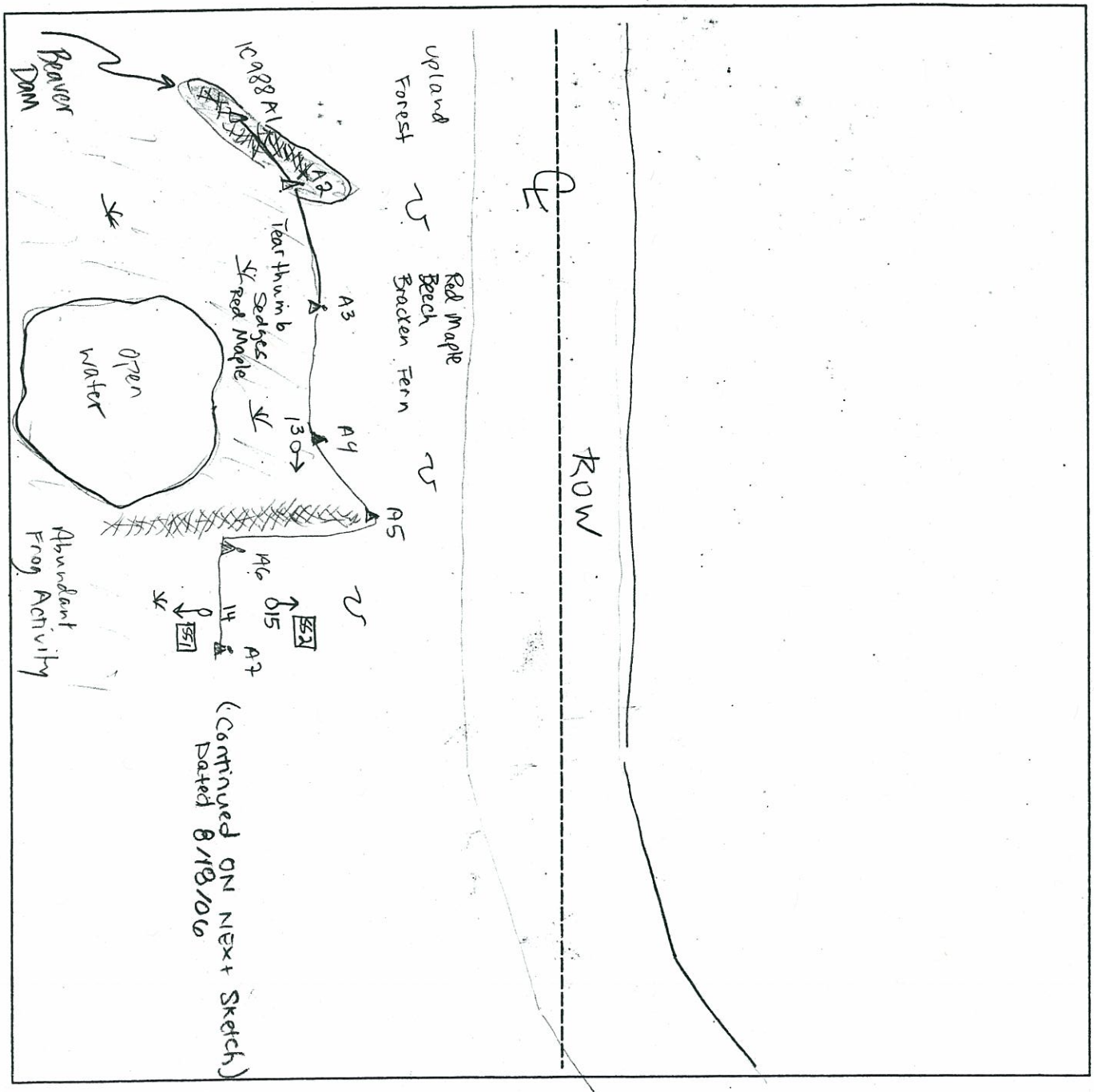
Is this Sample Station Point Within a Wetland? Yes (No)

Remarks

Photo 15 : 08170015 = N

SKETCH FORM

Wetland ID/Route #:	Date:	Time:
IC-988-A	8/17/06	1629
Intials of Delineators:	**Location:**	
SM/JV	IC Between 173 & 120	
Roll #:	**Frames:**	
P08170013;	to S (SS1) P08170014, P08170015 (SS2)	to N



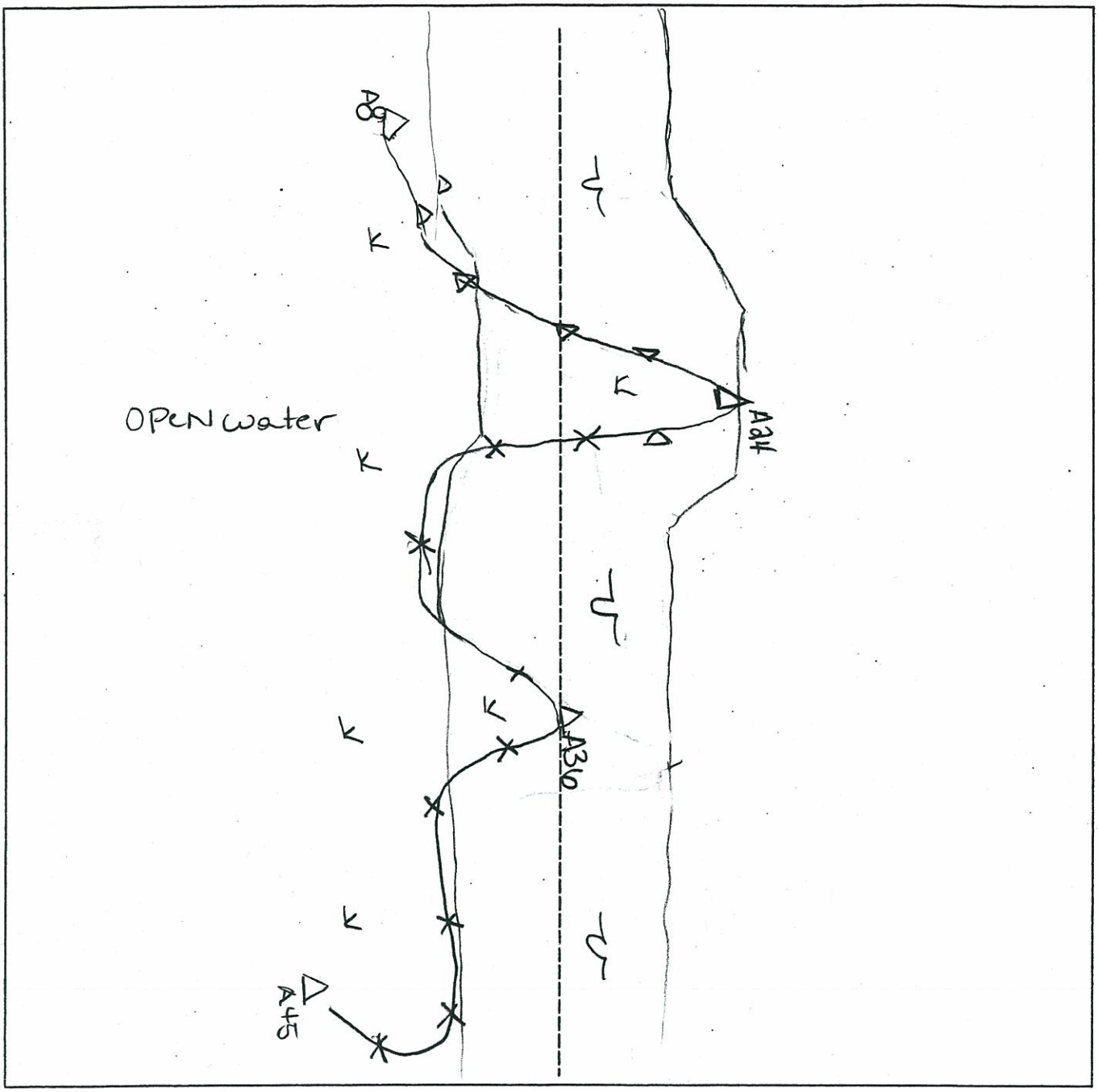
Legend

- Photo Location/Direction
- Sample Station
- Centerline
- Flag
- Wetland
- Upland
- Stream
- Intermittent Stream

N

SKETCH FORM

Wetland ID/Route #:	Date: Time:
IC988-A	8.10.06
Intials of Delineators: SM JTV	**Location:** IC between 173+120
Roll #: **Frames:**	



Legend

- Photo Location/Direction
- Sample Station
- Centerline
- Flag
- Wetland
- Upland
- Stream
- Intermittent Stream

N

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: BQ	Date: 9-11-06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: wetland Transect ID: Plot ID: IC 1138-1-551

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 30 Shrub: 80 Herb: 60 Vine:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer rubrum	T	FAC	9.		
2. Ulmus americana	T	FACW	10.		
3. Alnus incana	SH	FAC	11.		
4. Salix sp	SH	FACW+	12.		
5. Highbush cranberry	SH	FACW	13.		
6. Cornus stolonifera	SH	FACW	14.		
7. Sensitive fern	H	FACW	15.		
8 Flat top aster	H	FACW	16.		

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water (in.):

Depth to Free Standing Water in Pit (in.):

Depth to Saturated Soil (in.): surface

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
___ Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
___ Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Date: 9-11-06
Community ID: wetland
Plot ID: EC 1128-A-331

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	Ap/O	10YR 2/1	7.5YR 3/3	2% fine	Mucky mineral
12-14+	B	2.5Y 5/2	10YR 5/6	75%	loamy sand

Save dg B

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
__X__ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content, Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (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: Marble River Applicant/Owner: Marble River, LLC Investigator: BQ	Date: 9-11-06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: wetland Transect ID: Plot ID: IC-1128-B-551

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 90 Shrub: 65 Herb: 75 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer rubrum	T	FAC	9. Sensitive fern	H	FACW
2. Populus tremuloides	T	FACU	10.		
3. Ulmus americana	T	FACW	11.		
4. Alnus rugosa	SH	FACW+	12.		
5. Viburnum cassinoides	SH	FACW	13.		
6. Large leaf avens	H	FACW	14.		
7. Sphagnum	H	OBL	15.		
8 equisetum sp.	H	~~FACW~~	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 89%

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water (in.):

Depth to Free Standing Water in Pit (in.):

Depth to Saturated Soil (in.): Surface

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
___ Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
___ Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Date: 9-11-06
Community ID: wetland
Plot ID: IC 1158-B-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.
0-10	A/O	10 YR 2/1	7.5 YR 3/3	<2% fine	mucky mineral
10-12+	B/	~~7.5 YR~~ 5/2	10 YR 5/6	75% med	loamy sand

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
✓ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content, Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (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: Marble River Applicant/Owner: Marble River, LLC Investigator: BR	Date: 9-11-06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: upland Transect ID: Plot ID: IC 1128 A/B-SS2

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: Shrub: Herb: Vine:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.			9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8			16.		

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

Remarks: Roadway + Roadway embankment, no veg

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): none

Depth to Free Standing Water in Pit (in.):

Depth to Saturated Soil (in.):

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated none
___ Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
___ Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
___ Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Date: 9-11-06
Community ID: UPland
Plot ID: EC 1128 A/B-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.

Hydro Soil Indicators

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

Remarks: Paved Road with Steep embankments

WETLAND DETERMINATION

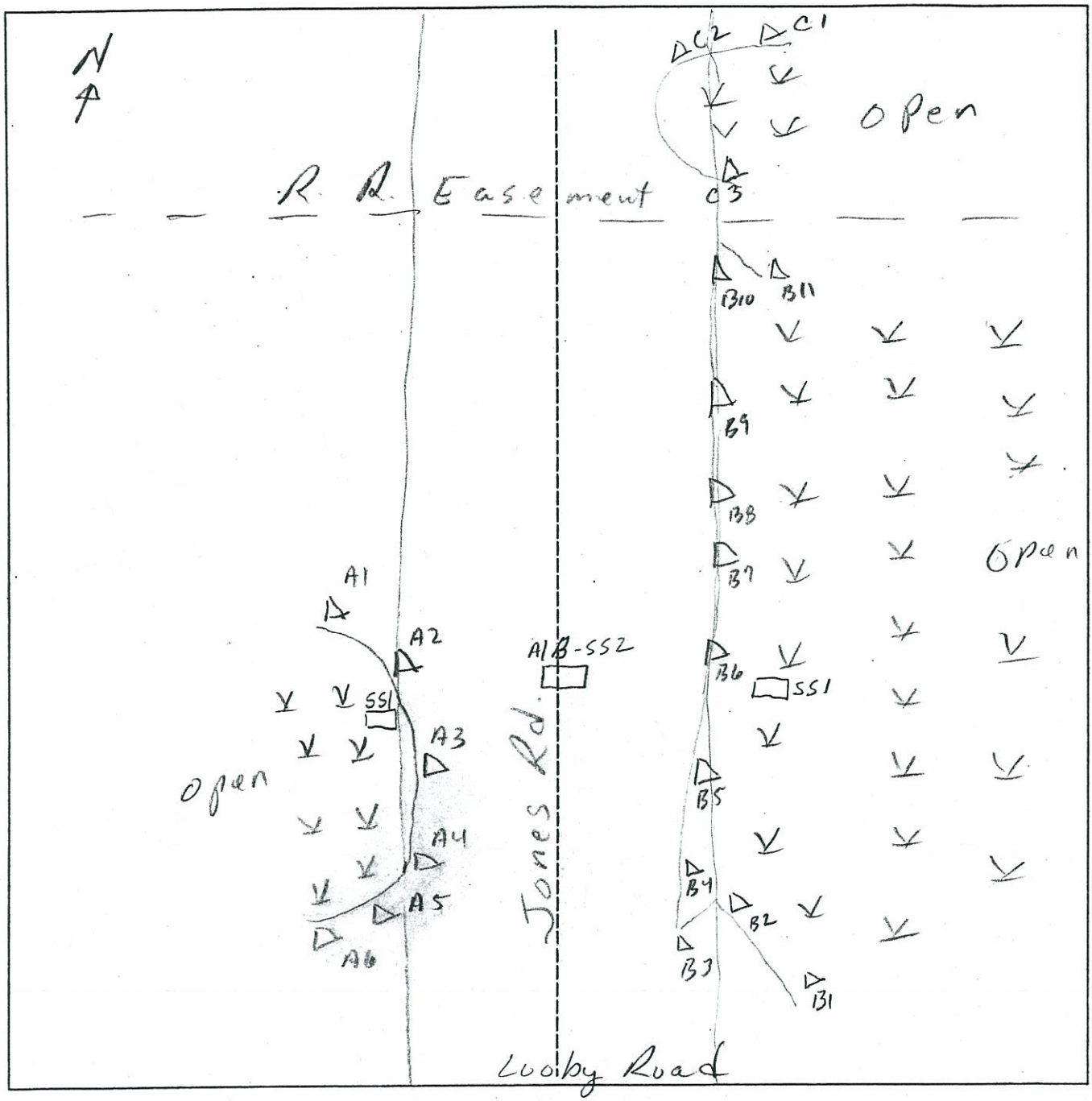
Hydrophytic Vegetation Present? Yes (No)
Wetlands Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

Is this Sample Station Point Within a Wetland? Yes (No)

Remarks: Wetland on either side of paved Rd. with steep embankments. Well defined boundary

SKETCH FORM

Wetland ID/Route #: IC 1128	**Date:** 09/11/06 **Time:** 12:00 pm
Intials of Delineators: DR/BG	**Location:** Interconnect – North of Looby Rd to just N. of RR. Easement on Jones Rd.
Roll #: **Frames:**	



Legend

- Photo Location/Direction
- Sample Station
- Centerline
- Flag
- Wetland
- Upland
- Stream
- Intermittent Stream

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: TB/V	Date: 9/10/06 County: Clinton State: NY
Do Normal Circumstances exist on the site? ~~Yes~~ No Is the site significantly disturbed (Atypical Situation)? Yes No Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: Transect ID: Plot ID: IC1156-59 SS1 SS2

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: Shrub: Herb: Vine:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.			9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8			16.		

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

Remarks:

Rep plot; Refer to IC987

HYDROLOGY

___ Recorded Data (Describe in Remarks):
- ___ Stream, Lake, or Tide Gauge
- ___ Aerial Photographs
- ___ Other

___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.):

Depth to Free Standing Water in Pit (in.):

Depth to Saturated Soil (in.):

Wetland Hydrology Indicators:
Primary Indicators:
- ___ Inundated
- ___ Saturated
- ___ Water Marks
- ___ Drift lines
- ___ Sediment Deposits
- ___ Drainage Patterns In Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 inches
- ___ Water-Stained Leaves
- ___ Local Soil survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks:

Rep plot; Refer to IC987

Date: 9/10/06
Community ID:
Plot ID: IC 1156-59 SS1 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.

Hydro Soil Indicators

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

Remarks:

Rep plot, Refer to IC987

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No
Wetlands Hydrology Present? Yes No
Hydric Soils Present? Yes No

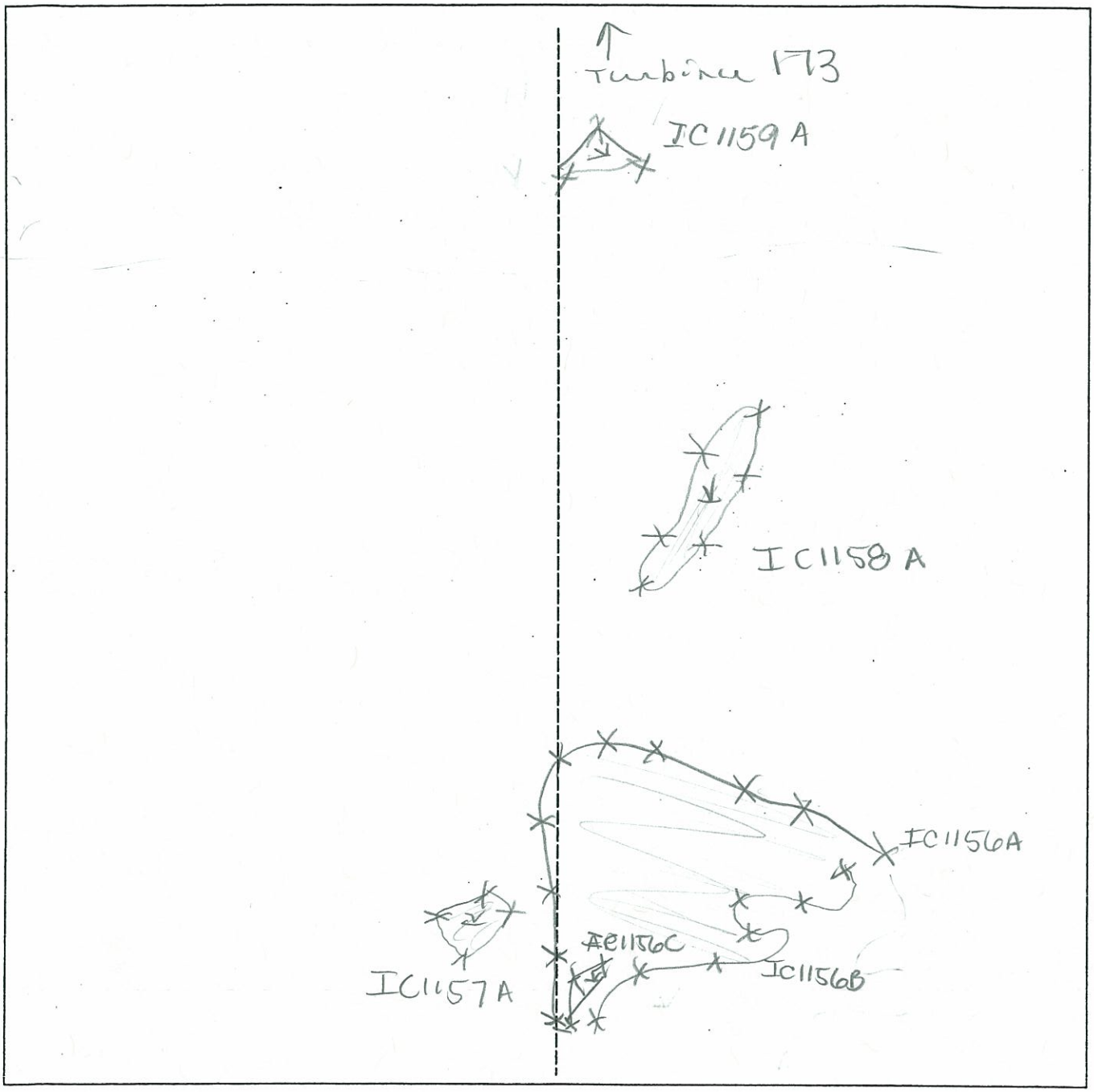
Is this Sample Station Point Within a Wetland? Yes No

Remarks

Rep plot, Refer to IC987

SKETCH FORM

Wetland ID/Route #: IC1156A/B/C, 1157A/B, 1158 and 1159	**Date:** 9/10/06 **Time:**
Intials of Delineators: IB, JV	**Location:** JC between 173 + 120
Roll #: **Frames:**	



Legend

- Photo Location/Direction
- Sample Station
- Centerline
- Flag
- Wetland
- Upland
- Stream
- Intermittent Stream

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

Project Site: MARINE RIDGE WIND FARM Applicant/Owner: MARINE RIDGE, LLC Investigator: RA, JC	Date: 7/18/06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: WETLAND Transect ID: WTG95-908A- Plot ID: SS1

VEGETATION DEM

Plant Community Classification:
Percent Canopy Cover: Tree: Ø Shrub: Ø Herb: 100% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Purple top GRASS	H		9.		
2. DK GRN bullrush	H	OBL	10.		
3. CAREX SCOPARIA	H	FACW	11.		
4. Timothy	H	FACU	12.		
5. LANCE (water) GOLDENROD	H	FAC	13.		
6.			14.		
7.			15.		
8			16.		

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): n/a

Depth to Free Standing Water in Pit (in.): n/a

Depth to Saturated Soil (in.): 0"

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
___ Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
X Oxidized Root Channels in Upper 12 inches
X Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
X Other (Explain in Remarks)

Remarks: x DEPRESSIONAL AREA

Date: 7/9/06
Community ID: WETLAND
Plot ID: WTG95, 908A-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.
0-5	A	10YR 5/2	10YR 4/2	Com/Coarse/Faint	Silty clay loam
5-8	B	10YR 5/2	5YR 4/6	MANY/MEDIUM/DISTINCT	CLAY

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
✓ Reducing Conditions
✓ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content, Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:

REDUCTION AT 8"

WETLAND DETERMINATION

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

Remarks

Date: 7/9/06
Community ID: UPLAND
Plot ID: WTB9598A-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.
0-8	A	10YR 4/2	—	—	Silty Clay loam

Hydro Soil Indicators

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

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes (No)
Wetlands Hydrology Present? Yes (No)
Hydric Soils Present? (Yes) No

Is this Sample Station Point Within a Wetland? Yes No

Remarks
- No Hydrology
- Marginal Veg
- Hydric Soils

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

Project Site: MARBLE River Wind Farm Applicant/Owner: MARBLE River LLC Investigator: TEH, SC	Date: 7/10/08 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: UPLAND Transect ID: MTG-95-908A Plot ID: SS2

VEGETATION Early Successional field

Plant Community Classification:
Percent Canopy Cover: Tree: 0 Shrub: 0 Herb: 100% Vine: 8

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Wild Marjoram	H	UPL	9.		
2. Buttercup	H	FAC	10.		
3. Timothy	H	FACU	11.		
4. R. Stemmed Goldenrod	H	FAC	12.		
5. Grass sp	H	—	13.		
6. Canada Goldenrod	H	FACU	14.		
7. Cow Vetch	H	UPL	15.		
8	H		16.		

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
- ___ Stream, Lake, or Tide Gauge
- ___ Aerial Photographs
- ___ Other

___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): N/A

Depth to Free Standing Water in Pit (in.): N/A

Depth to Saturated Soil (in.): N/A

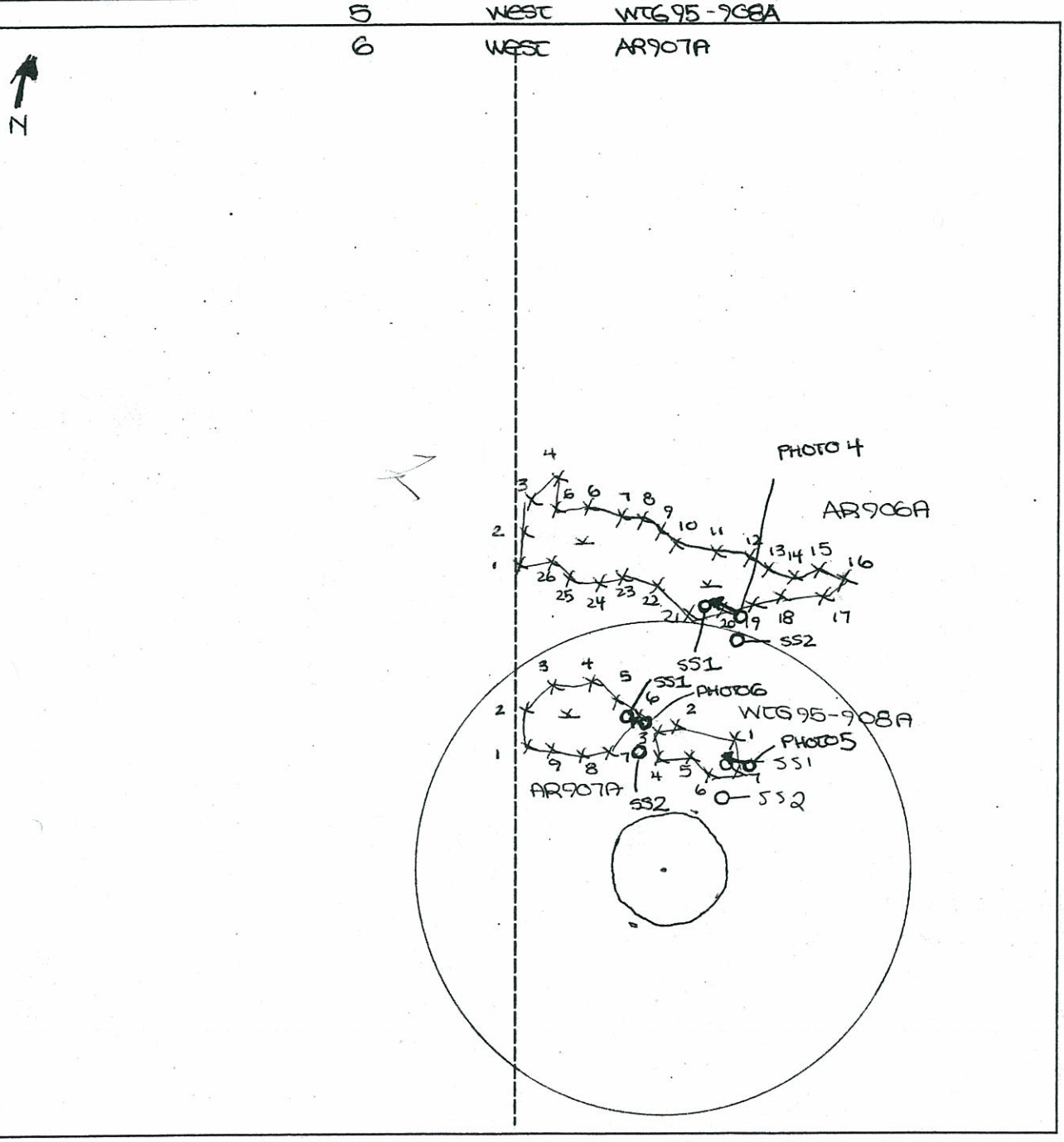
Wetland Hydrology Indicators:
Primary Indicators:
- ___ Inundated
- ___ Saturated
- ___ Water Marks
- ___ Drift lines
- ___ Sediment Deposits
- ___ Drainage Patterns In Wetlands

Secondary Indicators (2 or more required):
- ✓ Oxidized Root Channels in Upper 12 inches
- ___ Water-Stained Leaves
- ___ Local Soil survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks:

SKETCH FORM

Wetland ID/Route #: AR907A /AR906A/ WTG95 908A	**Date:** 07/10/06 **Time:**
Intials of Delineators: RD SC	**Location:** MARBLE RIVER
Roll #: **Frames:** PHOTO 4 FACING WEST AT AR906A	
5	WEST WTG95-908A
6	WEST AR907A



Legend

Photo Location/Direction	Wetland
Sample Station	Upland
Centerline	Stream
Flag	Intermittent Stream

Wetland

DATA FORM
ROUTINE WETLAND DETERMINATION WTG 173-914-SS1
(1987 ACOE Wetlands Delineation Manual)

Project Site: Marble River Applicant/Owner: Marble River LLC Investigator: BPZ	Date: 5/10/06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: PSS/PEM Transect ID: Plot ID: WTG 173-914-SS1

VEGETATION * Logging activity

Plant Community Classification: Scrub/
Percent Canopy Cover: Tree: 0 Shrub: 30 Herb: 85.5 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Red maple	Sap	FAC	9.		
2. Dogwood	Scrub	FACW	10.		
3. Unk. Grass *	Herb	FACW	11.		
4. Sugar maple	Sap	FACU	12.		
5. Sensitive Fern	Herb	FACW	13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/5 = 60

Remarks:
* Unk. Grass. - cannot be ID due to seasonal condition assumed FACW

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:
Depth of Surface Water (in.): none
Depth to Free Standing Water in Pit (in.): Surface
Depth to Saturated Soil (in.): Surface

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
X Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
X Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Date: 5/10/06
Community ID: PSS/PEM
Plot ID: WTG173-914-SS-1

SOILS

Map Unit Name (Series and Phase): U/D

Drainage Class: PD

Taxonomy (SubGroup): N/A

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	Ap	10YR 2/1	None	None	FSL
6-14	Bw	10YR 6/2	10YR 4/6	Com, Med, Dist	FSL

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
_X_ Aquic Moisture Regime
_X_ Reducing Conditions
_X_ Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content, Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (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)

Upland

WTG 173-914-SS 2

Project Site: Marble River Applicant/Owner: Marble River LLC Investigator: BPS	Date: 5/10/06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: PSS1/PEM Transect ID: Plot ID: WTG 173 914 - SS2

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: Shrub: Herb: Vine:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Sugar Maple	Tree	FACU	9.		
2. Red Maple	Tree	FAC	10.		
3. Blk Cherry	Tree	FACU	11.		
4. May Flower	Herb	FACU	12.		
5.			13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 1/4 = 25

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
✓ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): None

Depth to Free Standing Water in Pit (in.): >12"

Depth to Saturated Soil (in.): >12"

Wetland Hydrology Indicators: None

Primary Indicators:
___ Inundated
___ Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
___ Drainage Patterns In Wetlands

Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
___ Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Date: 5/10/06
Community ID: PSS / PEM
Plot ID:

WT6 123.914 - Upland

SOILS

Map Unit Name
(Series and Phase): N/A

Drainage Class: WA

Taxonomy (SubGroup): N/A

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	Ap	10YR 2/1	none	none	FSL
6-12	Bw	10YR 4/6	none	none	FSL

Hydro Soil Indicators

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

Remarks:

WETLAND DETERMINATION

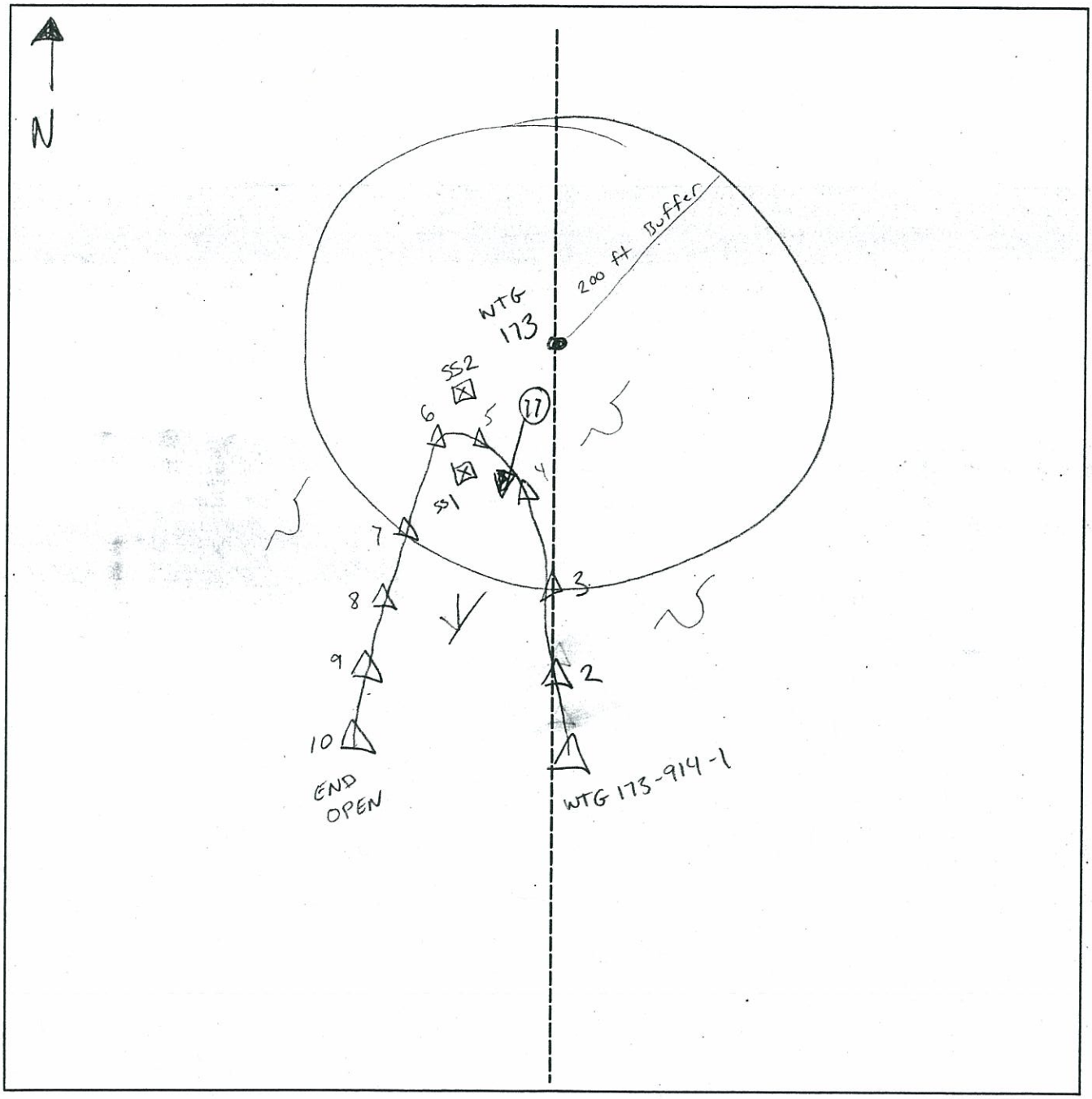
Hydrophytic Vegetation Present? Yes (No)
Wetlands Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

Is this Sample Station Point Within a Wetland? Yes (No)

Remarks

SKETCH FORM

Wetland ID/Route #: WTG 173 - 914	**Date:** 5-10-06 **Time:**
Intials of Delineators: BR DO	**Location:** Marble River
Roll #: **Frames:** 77 : Looking S @ WTG 173-914	



Legend

- Photo Location/Direction
- Sample Station
- Centerline
- Flag
- Wetland
- Upland
- Stream
- Intermittent Stream

wetland

DATA FORM
ROUTINE WETLAND DETERMINATION D, G, WTG 911-5
(1987 ACOE Wetlands Delineation Manual)

WT6173

Project Site: Marble River Applicant/Owner: Marble River LLC Investigator: BPR	Date: 5/10/06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: PSS Transect ID: Plot ID: WTG173-911-SS-1

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 0 Shrub: 85.5 Herb: 85.5 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Alder	Shrub	FACW	9.		
2. Deformed Grasses*	Herb	FACW	10.		
3. Meadowsweet	Herb	FACW	11.		
4. Sphagnum	Herb	OBL	12.		
5.			13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 2/3 = 66

Remarks: * Unable to I.D. due to seasonal conditions, FACW or wetter
* Assume OBL

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
___ Aerial Photographs
___ Other
X No Recorded Data Available

Field Observations:
Depth of Surface Water (in.): None
Depth to Free Standing Water in Pit (in.): Surface
Depth to Saturated Soil (in.): Surface

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
X Drainage Patterns In Wetlands
Secondary Indicators (2 or more required):
___ Oxidized Root Channels in Upper 12 inches
X Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks:

Date: 5/10/02
Community ID:
Plot ID:
wetland WTG-173-911-SS1

SOILS

Map Unit Name
(Series and Phase): N/A

Taxonomy (SubGroup): N/A

Drainage Class: PD

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	Ap	10YR 3/2	none	none	FGR w/ much
12-18	Bw	10YR 6/1	none	none	FGR

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
X Aquic Moisture Regime
X Reducing Conditions
X Gleyed or Low-Chroma Colors
___ Concretions
___ High Organic Content, Surface Layer in Sandy Soils
___ Organic Streaking in Sandy Soils
___ Listed on Local Hydric Soils List
___ Listed on National Hydric Soils List
___ Other (Explain in Remarks)

Remarks:

* Close to Histic Epipedon

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (Yes) No
Wetlands Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No

Is this Sample Station Point Within a Wetland? (Yes) No

Remarks

Upland

WTG 173

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

U.G. WTG 911-S

Project Site: Marble River Applicant/Owner: Marble River Investigator: BPR	Date: 5/10/06 County: Clinton State: NY
Do Normal Circumstances exist on the site? (Yes) No Is the site significantly disturbed (Atypical Situation)? Yes (No) Is the area a potential Problem Area? Yes (No) (If needed, explain on reverse.)	Community ID: FCO Transect ID: Plot ID: WTG 173-911-SU2

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 63.0 Shrub: 20.5 Herb: 20.5 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Sugar Maple	Tree	FACU	9.		
2. Red Maple	Tree	FAC	10.		
3. Grey Birch	Tree	FAC	11.		
4. Sugar Maple	Shrub	FACU	12.		
5. Blk Cherry Seedlings	Herb	FACU	13.		
6. May Flowers	Herb	FAC-	14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 2/6 = 1/3

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
- ___ Stream, Lake, or Tide Gauge
- ___ Aerial Photographs
- ___ Other

X No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): None

Depth to Free Standing Water in Pit (in.): >16"

Depth to Saturated Soil (in.): >16"

Wetland Hydrology Indicators: NONE

Primary Indicators:
- ___ Inundated
- ___ Saturated
- ___ Water Marks
- ___ Drift lines
- ___ Sediment Deposits
- ___ Drainage Patterns In Wetlands

Secondary Indicators (2 or more required):
- ___ Oxidized Root Channels in Upper 12 inches
- ___ Water-Stained Leaves
- ___ Local Soil survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks:

Upland

Date: 5/10/06
Community ID: PFO
Plot ID:
WT6 173-911-8802

SOILS

Map Unit Name (Series and Phase): N/A

Drainage Class: MWD

Taxonomy (SubGroup): N/A

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	Ap	10YR 3/2	None	None	FSL
6-16	Bw1	10YR 4/6	None	None	FSL

Hydro Soil Indicators

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

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes (No)
Wetlands Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

Is this Sample Station Point Within a Wetland? Yes (No)

Remarks