AR66A - WL

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

Project Site: Clinton County Applicant/Owner: Horizon Investigator: SH, MD, JG	Date: 10/20/05 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: AR66A - SS1

VEGETATION

Plant Community Classification: PEM/PSS

Percent Canopy Cover: Tree: 10 Shrub: 20 Herb: 100 Vine: 5

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Gray Birch	T	FAC	9. Nightshade	V	FAC-
2. Red Osier Dogwood	S	FAC	10. Interrupted fern	H	FAC
3. Gray Birch	S	FAC	11.		
4. Beaked willow	S	FACW	12.		
5. Sensitive fern	H	FACW	13.		
6. Poa sp	H	—	14.		
7. Flat top Aster	H	FACW	15.		
8 Horse tail	H	—	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 90%

Remarks:
- Juncus Effusus (H)
- Bone set (H)
- Carex crinata (H)
- speckled Alder (S)
- willow herb (H)
- rattlesnake grass (H)
- cat tail (H)
- lemna (H)

plants outside of soil station also present in wetland

HYDROLOGY

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

___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): 2 in

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

Depth to Saturated Soil (in.): 0

Wetland Hydrology Indicators:

Primary Indicators:
- X Inundated
- X 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:

pit roll 5 #27 Shows SS1 + SS2 looking SW

- recent rainfall within last 12 hours

AM66A-WL

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 - 2	O	10YR-3/1			Silt loam
2 - 5	A	10YR-4/1			Sand loam

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: - refusal of Auger at 5 inches
- disturbed soil from logging most likely

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

AR66A-upL

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

Project Site: Clinton County Applicant/Owner: Horizon Investigator: KH, RD, SG	Date: 10/20/05 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: AR66A-SD

VEGETATION

Plant Community Classification: upland - beech maple mesic
Percent Canopy Cover: Tree: 90 Shrub: 20 Herb: 40 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer Saccharum	T	FACU	9.		
2. American Beech	T	FACU	10.		
3. Big Tooth Aspen	T	FACU	11.		
4. Acer saccharum	S	FACU-	12.		
5. Moss sp.	H	—	13.		
6. Basswood	T	FACU	14.		
7.			15.		
8			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
X Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:

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

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

Depth to Saturated Soil (in.): 3in

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X 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:
- recent rainfall within 12 hours

AR66A-UPL

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	O	10YR-2/1			loam
1-6	A	10YR-4/1	7.5YR-5/8	Few/med/Faint	clay loam
			10YR-7/1	" " /distinct	

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 6" - MN Mottles
- roots in top 6 inches

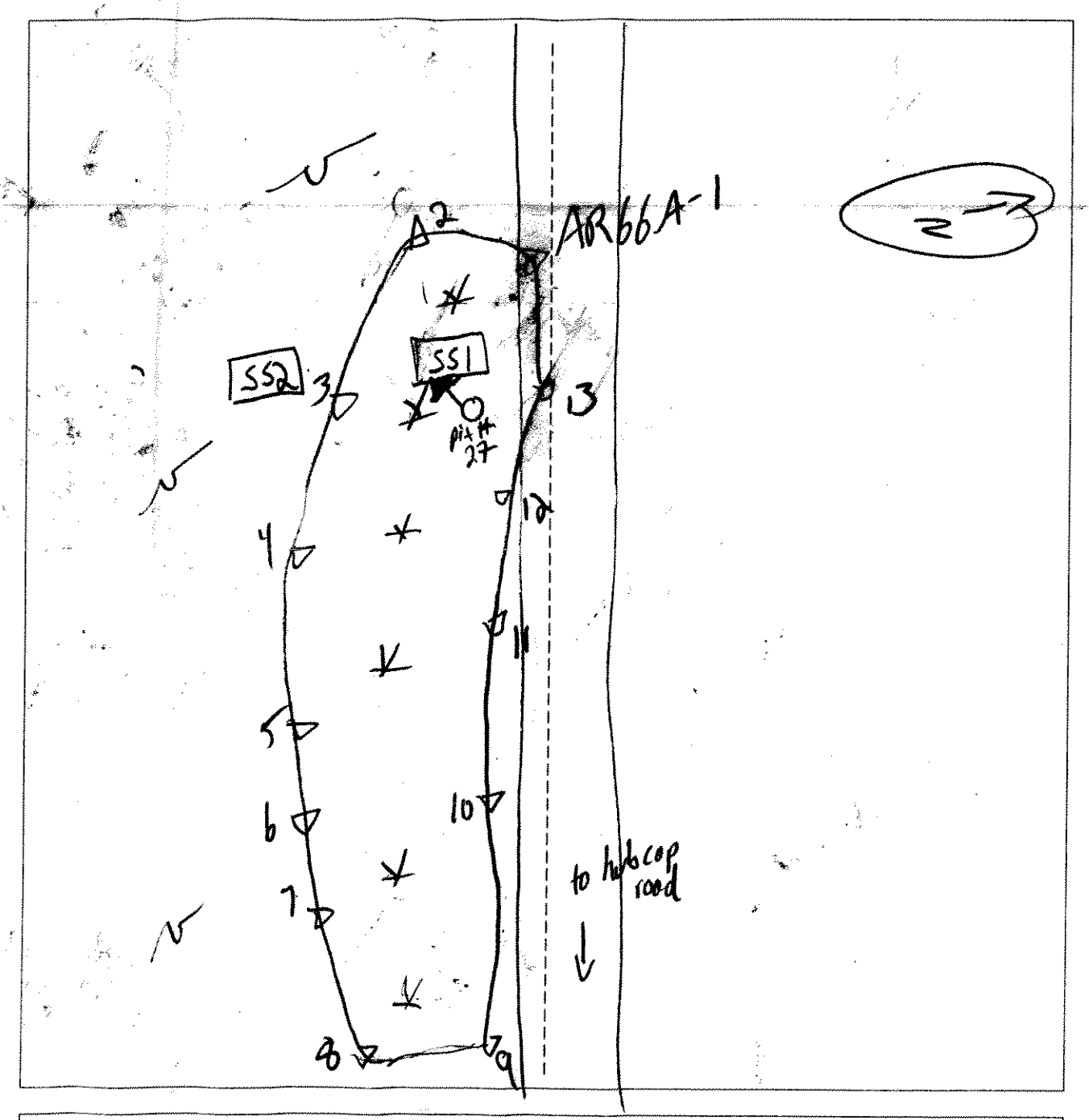
WETLAND DETERMINATION

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

Remarks

SKETCH FORM

Wetland ID/Route #:	Date:	Time:
AR66A	10/20/05	09:43
Intials of Delineators:	**Location:**	
KH, RD, JG	Clinton Co	
Roll #:	**Frames:**	
Roll 5	#27	



Legend

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

AR68A-WL

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

Project Site: Clinton Co. Applicant/Owner: Horizon Investigator: MA, AD, JG	Date: 10/20/05 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: AR68A-SS1

VEGETATION

Plant Community Classification: PEM1P5S
Percent Canopy Cover: Tree: 20 Shrub: 0 Herb: 90 Vine:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer Rubrum	T	FAC	9. Meadow Sweet	H	FACW
2. Grey Birch	T	FAC	10. Sphagnum	H	—
3. Fowl meadow Grass	H	FACW	11.		
4. Poa Sp.	H	—	12.		
5. Small white Aster		FAC	13.		
6. Solidago Canadensis		FAC	14.		
7. Sensitive Fern		FACW	15.		
8 Bunle weed	↓	OBL	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 80%

Remarks: pit # roll 5, 25 looks west of SS1, SS2

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
X 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 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: recent rainfall in last 12 hours

AR68A-WL

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-4/2			silty loam w/ roots
6-12	~~A2~~	7.5YR-3/4			silty sand
12-18	~~B~~	10YR-5/1	10YR-7 2/1	Few/Coarse/distinct	sandy clay

Hydro Soil Indicators

- ___ Histosol
- ___ Histic Epipedon
- X 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: - Bright chroma from 6-12 - almost pure gritty sand - disturbed soil from road construction?

- Mn mottles in B layer

WETLAND DETERMINATION

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

Remarks

AR68A - upl
67A -

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

Project Site: Clinton. Co. Applicant/Owner: Horizon Investigator: JSH, AD, SG	Date: 10/20/05 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: AR68A-SS2 AR67A-SS2

VEGETATION

Plant Community Classification: upland forest
Percent Canopy Cover: Tree: 80 Shrub: 40 Herb: 40 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer Saccharum	T	FACU-	9. Rough stemmed Goldenrod	H	FAC
2. Gray Birch	T	FAC	10. club Moss	H	—
3. Big Tooth Aspen	T	FACU-	11. Beech	H	FACU
4. Yellow Birch	T	FAC	12.		
5. Gray Birch	S	FAC	13.		
6. Acer Saccharum	S	FACU-	14.		
7. Wavyleaf wood Aster	H	UPL*	15.		
8 Rubus sp.	H	—	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 35%

Remarks: * Not listed pix# roll 5 -26 shows AR68A-SS2 > same point used AR67A-SS2 for upl Station for both wetlands

HYDROLOGY

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

Field Observations:
Depth of Surface Water (in.): N/A
Depth to Free Standing Water in Pit (in.): > 18
Depth to Saturated Soil (in.): > 18

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:

AR67A ; upL
AR68A

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-3/3			Sandy silt loam w/gravel

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: - disturbed soil from logging
- spoil pile

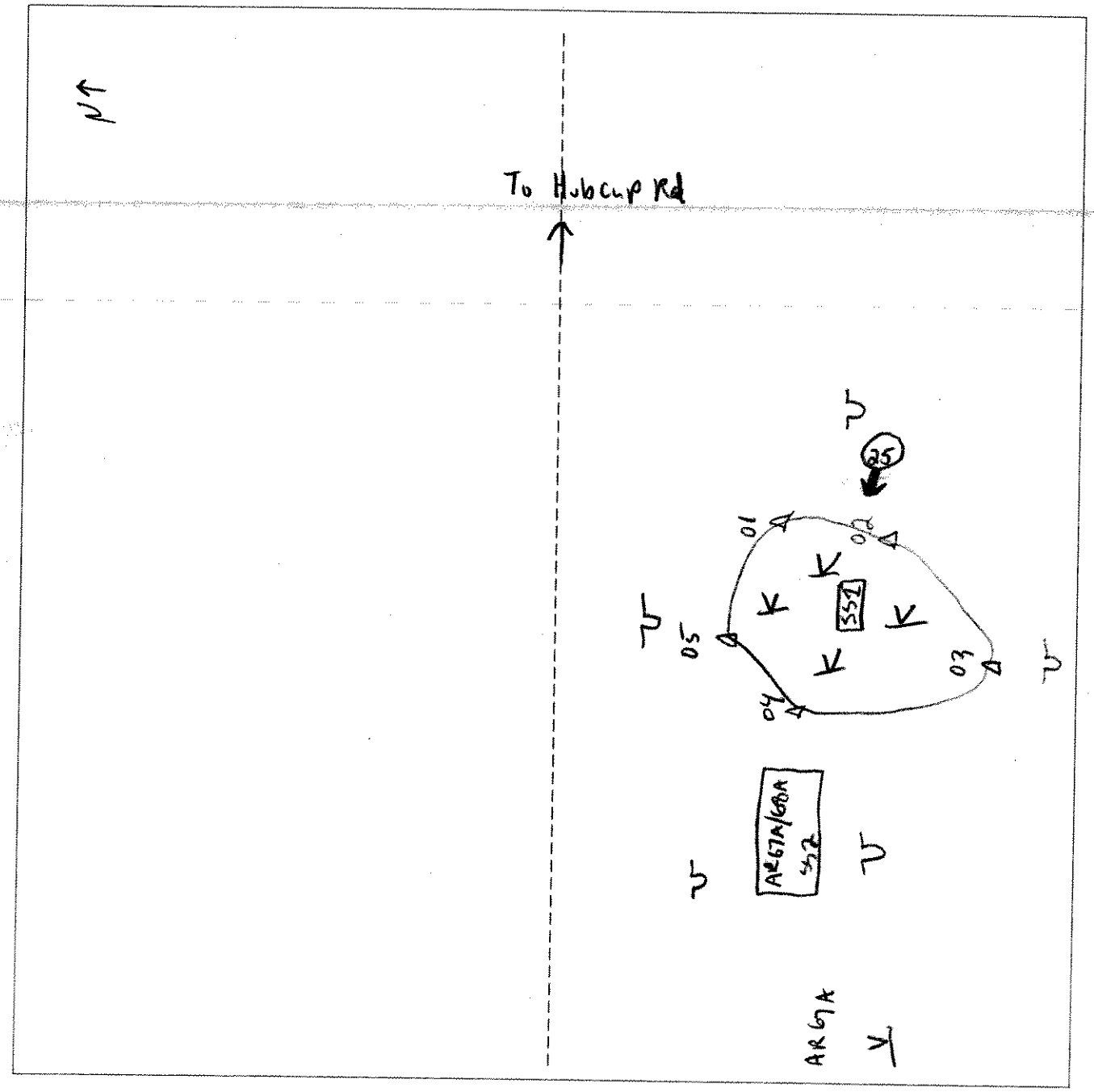
WETLAND DETERMINATION

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

SKETCH FORM

Wetland ID/Route #:	Date:	Time:
ARL8A	10/20/05	1030
Intials of Delineators:	**Location:**	
KH, RD, TC	ARL8A	
Roll #:	**Frames:**	
5	25	



Legend

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

AM 70 A
wL

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

Project Site: clinton-co Applicant/Owner: Horizon Investigator: KA, RD, JG	Date: 10/20/05 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: AM 70A-SS1

VEGETATION

Plant Community Classification: PEM

Percent Canopy Cover: Tree: 5 Shrub: 10 Herb: 85 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Big Tooth Aspen	T	FACU-	9. Sensitive Fern	H	FACW
2. Acer Rubrum	T	FAC	10.		
3. Beak willow	S	FACW	11.		
4. Meadow sweet	S	FAC+	12.		
5. Solidago Canadensis	H	FACU	13.		
6. Meadow sweet	H	FAC+	14.		
7. Rubus Sp.	H	—	15.		
8 Poa Sp.	H	—	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 70 %

Remarks: lots of open standing water - wool grass Subdominant in wetland - Bur reed

HYDROLOGY

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

___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): 8-12 in.

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

Depth to Saturated Soil (in.): 0

Wetland Hydrology Indicators:

Primary Indicators:
- X Inundated
- X 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: recent rainfall in last 12 hours

AR 701
WL

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	O	10YR-2/1			Mucky Peat
6 - 18	A	10YR-2/1			Muck w/ inclusions of peat

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

Remarks

AR 70A - UPL

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

Project Site: Clinton Co. Applicant/Owner: Horizon Investigator: SH, RD, JB	Date: 10/20/05 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 70A-SS2

VEGETATION

Plant Community Classification: Upland forest
Percent Canopy Cover: Tree: 60 Shrub: 5 Herb: 80 Vine: 30

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Gray Birch	T	FAC	9.		
2. Acer Rubrum	S	FAC	10.		
3. Gray Birch	S	FAC	11.		
4. Rubus sp	H	—	12.		
5. Solidago sp.	H	—	13.		
6. Solidago canadensis	H	FACU	14.		
7. Solidago rugosa	H	FAC	15.		
8 Nightshade	V	FAC-	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 66 %

Remarks: - Rubus - purple stalk, fine bristles, no bristles on stalk, 5 leaves
- pix # roll 5, 23 shows SS1 + SS2 looking North

HYDROLOGY

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

Field Observations:
Depth of Surface Water (in.): N/A
Depth to Free Standing Water in Pit (in.): > 14"
Depth to Saturated Soil (in.): > 14 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: recent rainfall in last 24 hours

AR701-UPL

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.
0-2	O	10YR-2/1			Organic material
2-14	E	7.5YR-5/2			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: - refusal of auger @ 14 inches
- pure sand in the E layer

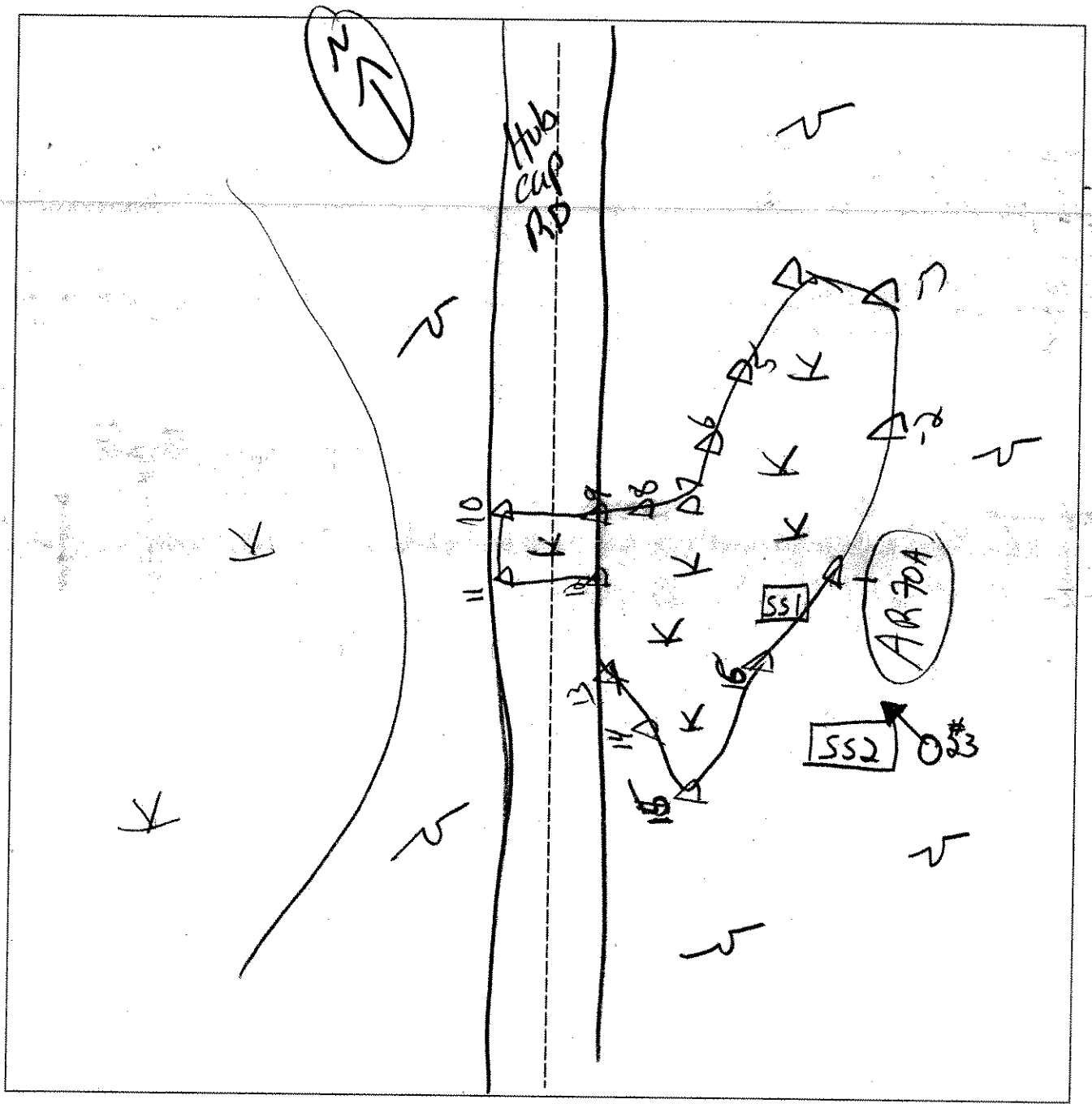
WETLAND DETERMINATION

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

Remarks

SKETCH FORM

Wetland ID/Route #: AR704A	Date: 10/20/05 Time: 12:00
Intials of Delineators: KH, RD, JG	Location: Clinton Co.
Roll #: 5 Frames: #23	



Legend

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

AR71A - WL

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

Project Site: Clinton Co. Applicant/Owner: Horizon Investigator: ISH, RP, JG	Date: 10/20/05 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: AR71A - SS1

VEGETATION

Plant Community Classification: PEM
Percent Canopy Cover: Tree: 0 Shrub: 0 Herb: 20 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Steeple Bush	H	FACW	9.		
2. Spotted Alder		FACW+	10.		
3. Silky willow		OBL	11.		
4. Moss (single tall stalk)		-	12.		
5. Moss sp.		-	13.		
6. Juncus Effusus		FACW+	14.		
7. Grass sp.		-	15.		
8			16.		

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

Remarks: - Man Made wetland - fill dug out, created pit / retention pond
- wool grass in center of wetland
- Highly disturbed area
- pix# 0015 # looking S, 22 shows SS1 + SS2

HYDROLOGY

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

Field Observations:
Depth of Surface Water (in.): 8
Depth to Free Standing Water in Pit (in.): 4
Depth to Saturated Soil (in.): 0

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X 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: recent rainfall within 12 hours

AR71A-WL

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-5/4	10YR-5/8	Few/large/Faint	Silty Sand

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
X 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: - Soils highly disturbed due to excavation
- refusal @ Auger 12 inches

WETLAND DETERMINATION

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

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

Remarks: NO hydric soils present - highly disturbed area / excavation activities created water retention pond that collects enough water to support hydrophytic vegetation

AM7A-UP1

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

Project Site: Clinton Co. Applicant/Owner: Horizon Investigator: KH, RD, JL	Date: 10/20/05 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: AM7A-SS2

VEGETATION

Plant Community Classification: Maple Forest
Percent Canopy Cover: Tree: 60 Shrub: 50 Herb: 20 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer Rubrum	T	FAC	9.		
2. Acer Rubrum	S	FAC	10.		
3. Grey Birch	S	FAC	11.		
4. Rubus Alleghenianses	H	FACU	12.		
5. Rubus sp.	H	—	13.		
6. Moss sp.	H	—	14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 75%

Remarks:
- Rubus sp. purple stalk, 5 leaves, bristles not thorns
- highly disturbed area due to excavation
- soil station taken on spoil pile, which is on edges of entire wetland area

HYDROLOGY

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

Field Observations:
Depth of Surface Water (in.): N/A
Depth to Free Standing Water in Pit (in.): > 18
Depth to Saturated Soil (in.): > 18

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: recent rains in last 12 hours

AR 71A - upL

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	2.5Y 5/4			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:

- disturbed soil due to excavation
- taken from spoil pile next to wetland area

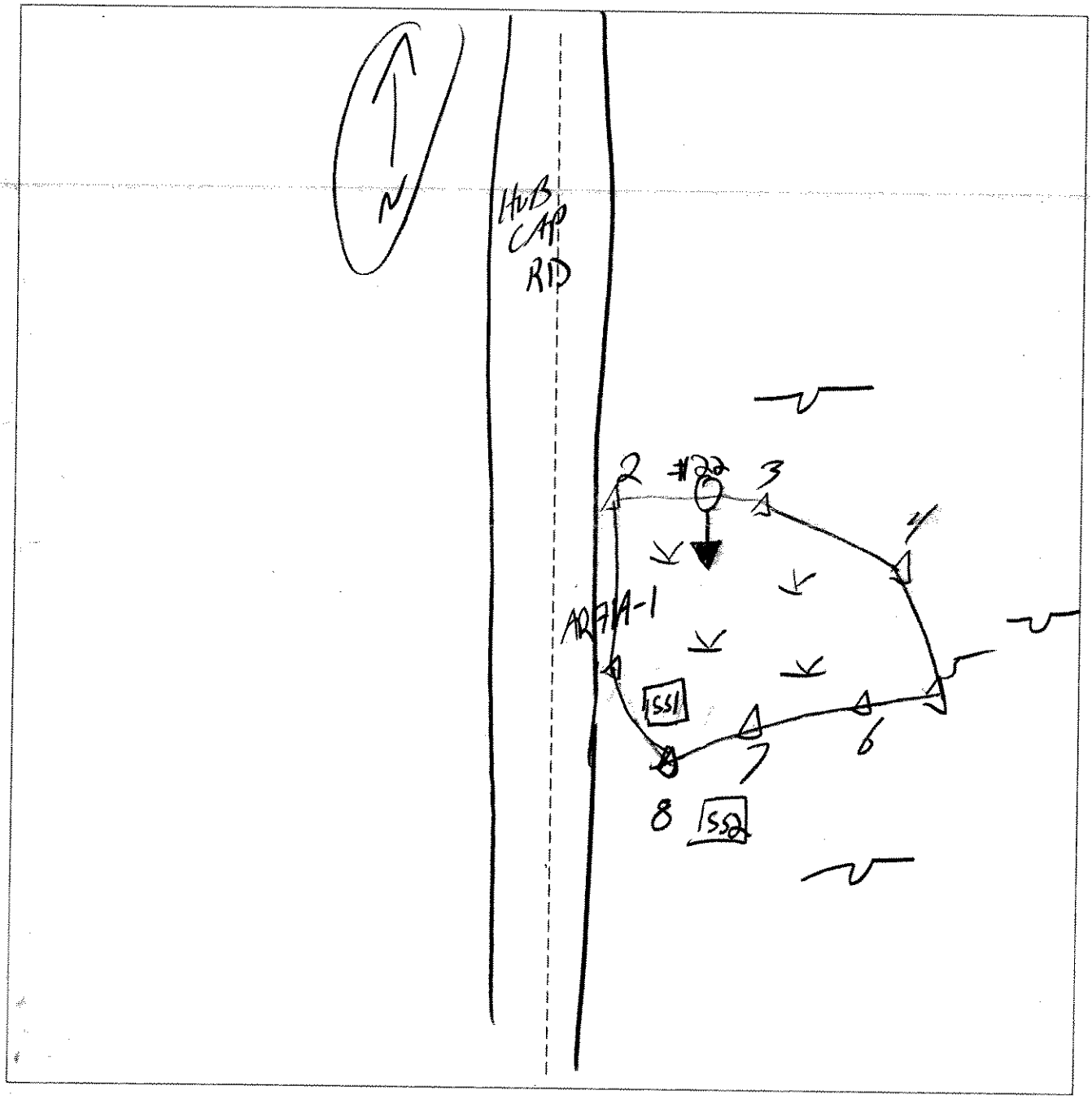
WETLAND DETERMINATION

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

SKETCH FORM

Wetland ID/Route #:	Date:	Time:
ARFIA	10/20/05	13:50
Intials of Delineators:	**Location:**	
BH, RD, JB	Clinton Co.	
Roll #:	**Frames:**	
5	22	



Legend

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

AR72A-wl

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

Project Site: Clinton Co. Applicant/Owner: Horizon Investigator: JSH, RD, JB	Date: 10/20/05 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 72A-SS1

VEGETATION

Plant Community Classification: PSS
Percent Canopy Cover: Tree: 20 Shrub: 80 Herb: 100 Vine:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer Rubrum	T	FAC	9. Rubus trailing vine	H	—
2. Gray Birch	T	FAC	10.		
3. Acer Rubrum	S	FAC	11.		
4. Beak willow	S	FACW	12.		
5. Juncus Effusus	H	FACW+	13.		
6. Solidago rugosa	H	FAC	14.		
7. Meadow sweet	H	FAC+	15.		
8 Sphagnum	H	—	16.		

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

Remarks: Rubus vine on guard 3 leaves

pit # roll 5, 21
shows SS1, SS2 looking East

HYDROLOGY

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

Field Observations:
Depth of Surface Water (in.): 6
Depth to Free Standing Water in Pit (in.): 0
Depth to Saturated Soil (in.): 0

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X 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: recent rainfall in last 24 hours

AR72A-WL

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.
0-8	O	10YR-2/1			Silty loam/organic Mucks

Hydro Soil Indicators

___ Histosol
X 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: refusal of Auger at 8"

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

AR 72A-upL

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

Project Site: Clinton Co Applicant/Owner: Horizon Investigator: KH, RD, JB	Date: 10/20/05 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 72A-SS2

VEGETATION

Plant Community Classification: PFO
Percent Canopy Cover: Tree: 70 Shrub: 30 Herb: 60 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Gray Birch	T	FAC	9.		
2. Acer Rubrum	T	FAC	10.		
3. Gray Birch	S	FAC	11.		
4. Acer Rubrum	S	FAC	12.		
5. Bracken Fern	H	FACU	13.		
6. Solidago rugosa	H	FAC	14.		
7. Big tooth Aspen	T	FACU-	15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 70 %

Remarks: Big tooth Aspen - Subdominate tree

HYDROLOGY

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

Field Observations:

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

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

Depth to Saturated Soil (in.): > 6 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: recent rains in last 24 hours

AR72A - upL

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	O	10YR-2/1			loam
4-6	E	10YR-5/2			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: refusal of auger at 6 inches

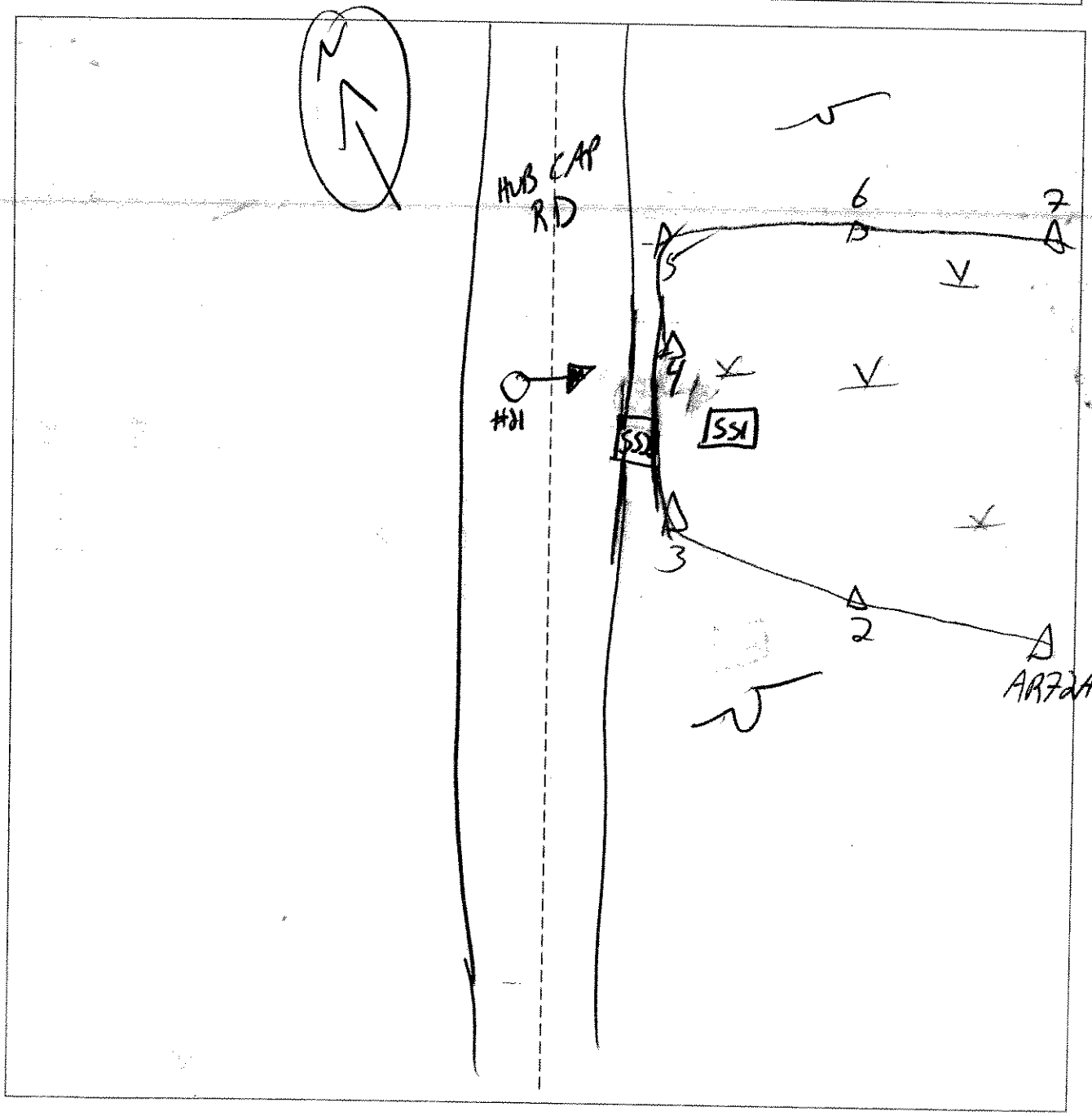
WETLAND DETERMINATION

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

Remarks

SKETCH FORM

Wetland ID/Route #: AR 72A	Date: 10/20/05 Time: 14:40
Intials of Delineators: ISH, RD, SV	Location: Clinton. Co.
Roll #: 5 Frames: 21	



Legend

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

AR72A EXTENSION

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: JV AP	Date: 5/10/07 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: PSS/PEM Plot ID: AR72A SS1

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: <5 Shrub: 95 Herb: 99 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Gray Birch	T	FAC	9.		
2. HB Blueberry	S	FACW-	10.		
3. Viburnum lentago	S	FAC	11.		
4. Sphagnum moss >50%	H	OBL	12.		
5.			13.		
6.			14.		
7.			15.		
8			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.): 2+" in

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

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: 5/10/07
Community ID: PSS/PEM
Plot ID: AR7aA

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	O	10YR 2/1			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: refusal @ ≤ 8", water in pit @ 6", saturated @ 0"

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 = E

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: JV AP	Date: 5\10\07 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 Transect ID: Plot ID: AR7aA

EXTENSION

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 70 Shrub: 60 Herb: 80 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Amelanchier canadensis	T	FACU	9. Populus grandidentata	T	FACU
2. Gray Birch	T	FAC	10.		
3. Red maple	T	FAC	11.		
4. Red maple	S	FAC	12.		
5. Viburnum lantago	S	FAC	13.		
6. L B Blueberry	H	FACU	14.		
7. Bracken fern	H	FACU	15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 50%

Remarks:

HYDROLOGY

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

Field Observations: NA

Depth of Surface Water (in.):

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

Depth to Saturated Soil (in.):

Wetland Hydrology Indicators: NA
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: 5/10/07
Community ID: UPL
Plot ID: AR72A

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	O	10YR 2/1	10YR 4/2	few, distinct, md.	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: refusal @ 6",

WETLAND DETERMINATION

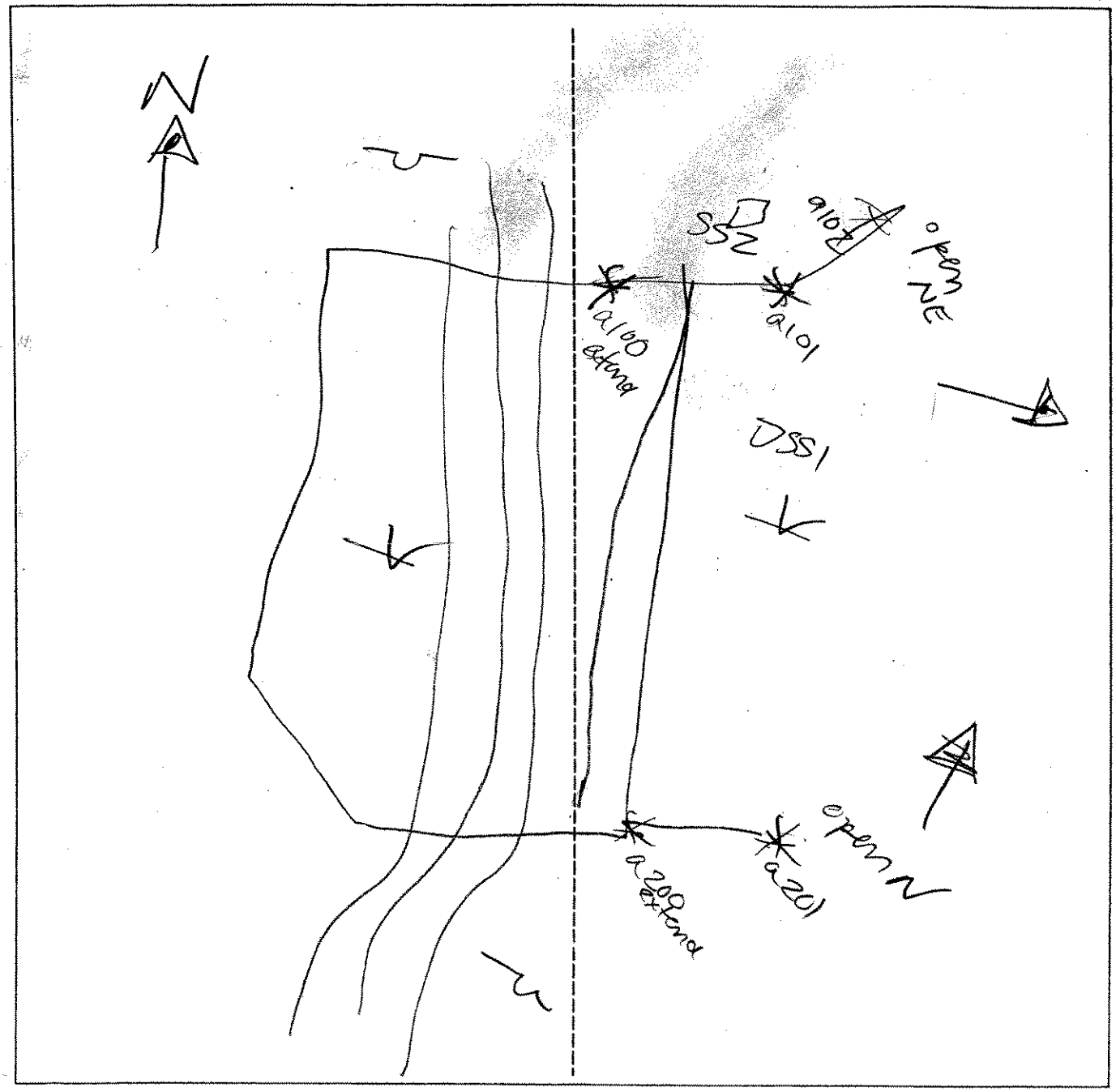
Hydrophytic Vegetation Present? (Yes) No
Wetlands Hydrology Present? Yes (No)
Hydric Soils Present? (Yes) No

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

Remarks

SKETCH FORM

Wetland ID/Route #: AR 78 A EXTENSION	Date: 5/10/07 Time:
Initials of Delineators: AP JV	Location:
Roll #: Frames:	



Legend

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

AROTTA-US

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

Project Site: CLINTON CO. Applicant/Owner: HORTON Investigator: AK KH	Date: 10/23/08 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: WETLAND Transect ID: AR079A Plot ID: SS1

VEGETATION PEM

Plant Community Classification:

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

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. SPEC'D TOAST	S	FACW	9. SPECKLED ALDER	S	FACW+
2. VIBURNUM SUBOST	S	FACW+	10. WHITE CEDAR	T/S	FACW
3. WOOL GRASS	H	OBL	11.		
4. RATTLESNAKE GRASS	H	FACW	12.		
5. TYPHA LATIFOLIA	H	OBL	13.		
6. FLAT TOPPED ASTER	H	FACW	14.		
7. SPHAGNUM MOSS	H	OBL	15.		
8 SALIX sp.	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
- X Aerial Photographs
- ___ Other

___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): UP TO 3" IN PLACES

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

Depth to Saturated Soil (in.): 0"

Wetland Hydrology Indicators:

Primary Indicators:
- X Inundated
- X Saturated in upper 12 inches
- ___ Water Marks
- ___ Drift lines
- ___ Sediment Deposits
- X 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: - RAIN WHILE DELINEATING
- RAIN WITHIN PAST 24 HRS
- STREAM 079A/B - SE FLOWS S THROUGH WETLAND, UNDER ROBERTS ROAD TO WETLAND AR079B.

ID: AR079A-WL

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.
0-10	[redacted]	10YR 2/1	NONE	—	OM
10-14	A	[redacted] 10YR 2/1	NONE	—	SANDY CLAY
14-18	A	10YR 3/1	NONE	—	SILTY LOAM

Hydro Soil Indicators

- ___ Histosol
- ___ Histic Epipedon
- X 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: -OM THROUGHOUT PROFILE
-NO REFUSAL OF AUGER

WETLAND DETERMINATION

		(Circle)	(Circle)
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
		Is this an Isolated Wetland?	Yes (No)

Remarks PHOTO 25 ROW 6 TO WEST

AR079A-UP

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

Project Site: CLINTON CO. Applicant/Owner: HORIZON Investigator: AC KH	Date: 6/23/05 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: UPLAND Transect ID: AR079A Plot ID: SS2

VEGETATION MID SUCCESSIONAL DECIDUOUS

Plant Community Classification:

Percent Canopy Cover: Tree: 80% Shrub: 10% Herb: 30% Vine: 5%

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. POPULUS TREMULOIDES	T/S	FACU	9. SALIX DISCOLOR	H	FAC
2. ACER RUBRUM	S	FAC	10.		
3. ACER SACCHARUM	T	FACU-	11.		
4. BLACK CHERRY	T	FACU	12.		
5. VIRGINIA CREEPER	H	FACU	13.		
6. RUBUS SP.	H	FAC	14.		
7. FOR SP.	H	FAC-	15.		
8 STRAWBERRY	H	FACU	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 22%

Remarks:

HYDROLOGY

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

___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): NA

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

Depth to Saturated Soil (in.): NA

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: RAIN DURING DELINEATION
- RAIN W/IN LAST 24 HRS

ID: AR079A - UP

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	O	10YR 2/1	NONE	—	OM
1-3	A	7.5YR 2.5/3	NONE	—	SANDY LOAM
3-8	A_2	10YR 4/4	NONE	—	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 @ 8"

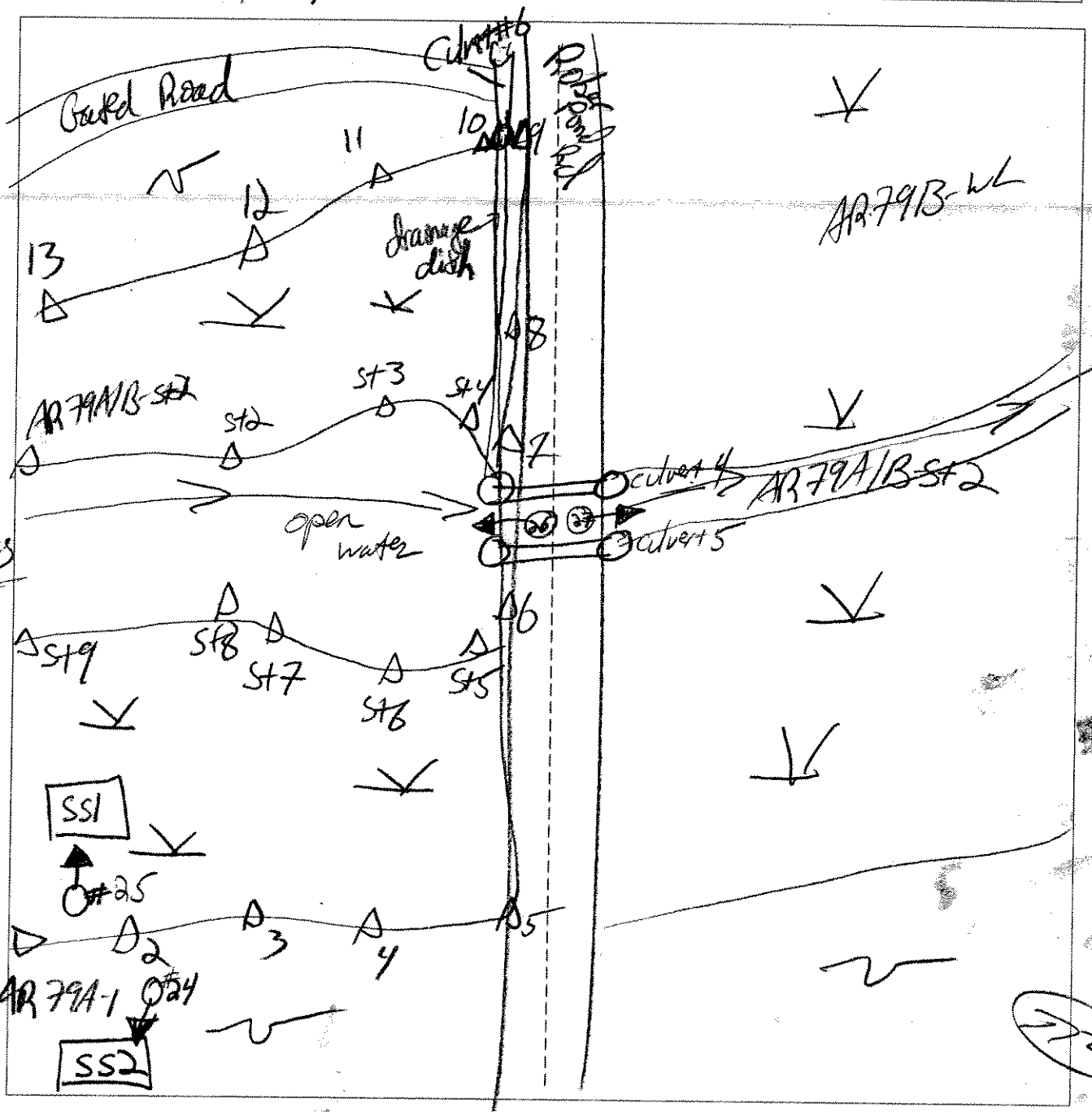
WETLAND DETERMINATION

		(Circle)	(Circle)
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)
		Is this an Isolated Wetland?	Yes No

Remarks PHOTO 24 ROL 6 TO EAST

SKETCH FORM

Wetland ID/Route #: AR 79A + AR 79A/B st 2	**Date:** 10/23/05 **Time:** 16:30
Intials of Delineators: KH, AR	**Location:** Clinton Co. Robert Pond Rd
Roll #: 6 **Frames:** 27, 26, 25, 24	

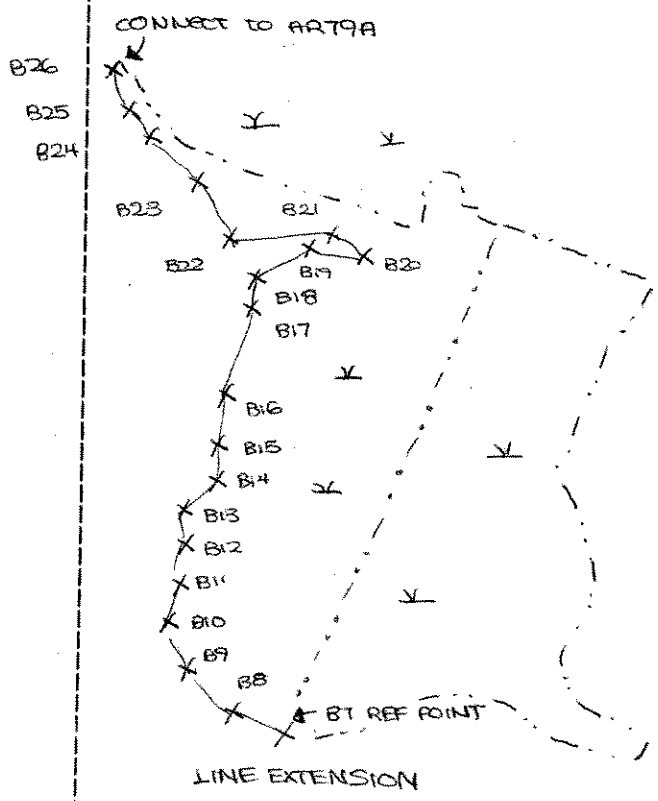


Legend

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

AR79-A LINE EXTENSION **SKETCH FORM**

Wetland ID/Route #: (IC535-B ON MAP) IC533-B	**Date:** 7/27/06 **Time:** AM
Intials of Delineators: BQ / SC	**Location:** MARBLE RIVER
Roll #: **Frames:**	



Legend

- Photo Location/Direction
- Sample Station
- Centerline
- Flag (X)
- Wetland
- Upland
- Stream
- ~~Intermittent Stream~~

PREVIOUSLY DELINEATED WETLANDS

AR079B-WL

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

Project Site: CLINTON CO Applicant/Owner: HORIZON Investigator: AK KH	Date: 10/28/05 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: WETLAND Transect ID: AR079B Plot ID: 85/A

VEGETATION PSS / PFO1

Plant Community Classification:
Percent Canopy Cover: Tree: 5% Shrub: 50% Herb: 90% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. SALIDAGO GIGANTICA	H	FACW	9.		
2. FLAT TOP ASTER	H	FACW	10.		
3. TEZEL WEED	H	FACW	11.		
4. CAREX Spp.	H	OBL	12.		
5. SENSITIVE FERN	H	FACW	13.		
6. SPECKLED ALDER	S	FACW+	14.		
7. ULMUS AMERICANA	T	FACW+	15.		
8			16.		

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

Remarks: ROLL 5 PHOTO 5 TO EAST

HYDROLOGY

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

Field Observations:

Depth of Surface Water (in.): UP TO 1' IN PLACES

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

Depth to Saturated Soil (in.): 0'

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in upper 12 inches
___ Water Marks
___ Drift lines
___ Sediment Deposits
X 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: RAIN WHILE DELINEATING
- RAIN W/IN LAST 12 HOURS

ID: AR079B-W2

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	A1	10YR 2/1	None	—	SILTY CLAY
14-18	A2	2.5YR 3/1	None	—	CLAY LOAM

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ 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: AUGER REFUSAL @ 18".

WETLAND DETERMINATION

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

(Circle)

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

(Circle)

Remarks

AR079B-WL

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

Project Site: CLINTON CO Applicant/Owner: HORIZON Investigator: AL YH	Date: 10/23/05 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: WETLAND Transect ID: AR079B Plot ID: S5(B

VEGETATION TBS

Plant Community Classification:

Percent Canopy Cover: Tree: 10% Shrub: 60% Herb: 70% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. WHITE CEDAR	T	FACW	9.		
2. SPECKLED ALDER	S	FACW+	10.		
3. WINTERBERRY	S	FACW	11.		
4. RED CANARY GRASS	H	FACW	12.		
5. SENSITIVE FERN	H	FACW	13.		
6. SPHAGNUM MOSS	H	OBL	14.		
7. CAREX	H	OBL	15.		
8			16.		

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

Remarks: ROLL 5 PHOTO 2 TO WEST

HYDROLOGY

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

___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): UP TO 2' IN PLACES

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

Depth to Saturated Soil (in.): 0"

Wetland Hydrology Indicators:

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

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: RAIN WHILE DELINEATING
- RAIN W/IN 12 HRS
- STREAM 79AB-ST2 FLOWS ACROSS ROAD FROM S INTO WETLAND

ID: AR0798-WC

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	O	10YR 2/1	NONE	—	OM SILT
4-12	A_1	10YR 3/1	NONE	—	SILT CLAY w/ OM
12-18	A_2	2.5YR 2.5/1	NONE	—	SILT CLAY w/ OM

Hydro Soil Indicators

- X Histosol
- ___ Histic Epipedon
- X 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: - OM THROUGHOUT PROFILE
- NO REFUSAL OF AUGER

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

AR079B-UP

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

Project Site: CLINTON CO Applicant/Owner: HORIZON Investigator: AK KH	Date: 10/23/05 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: UPLAND Transect ID: AR079B Plot ID: SS2A

VEGETATION MID SUCCESSIONAL MIXED CONIFER/DECIDUOUS

Plant Community Classification:

Percent Canopy Cover: Tree: 85% Shrub: 20% Herb: 5% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. GREEN ALDER	S	FAC	9. TIMOTHY GRASS	H	
2. GREY BIRCH	T	FAC	10.		
3. BLACK CHERRY	T	FACU	11.		
4. RED MAPLE	T	FAC	12.		
5. BALSAM ~~FIR~~	T/S	FAC	13.		
6. POPULUS TREMULOIDES	T	FACU	14.		
7. POA SPP *	H		15.		
8. WOODFERN	H	FACU	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 50%

Remarks: * SPECIES NOT IDENTIFIED

HYDROLOGY

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

___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): NA

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

Depth to Saturated Soil (in.): 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: RAIN WAS DELINEATING
- RAIN W/IN PAST 12 HRS

ID: AR079B-UP

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	O	10YR 2/1	NONE	—	OM
1-5	A	10YR 5/2	NONE	—	SANDY CLAY
5-18	B	10YR 5/2	NONE	—	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: SATURATED @ 16"
PHOTO 4 ROLL 5 TO EAST

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

AR079B-UP

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

Project Site: CLENTON CO. Applicant/Owner: HORIZON Investigator: AE CH	Date: 10/23/08 County: CLENTON State: NJ
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: AR079B Plot ID: SS2B

VEGETATION MED. SUCCESSIONAL DECIDUOS

Plant Community Classification:
Percent Canopy Cover: Tree: 70% Shrub: 10% Herb: 80% Vine: 2%

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. POPULUS TREMULOIDES	T/S	FACU	9.		
2. GREY BIRCH	T	FAC	10.		
3. BLACK CHERRY	S	FACU	11.		
4. VOA SPP.	H	FAC	12.		
5. RUBUS	H	FAC-	13.		
6. (LOW) HIGH BLUEBERRY	S	FACW-	14.		
7. VIRGINIA CREEPER(?)	V	FACU	15.		
8 SUGAR MAPLE	S	FACU-	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 13%

Remarks: ROLL 5 PHOTO 1 TO EAST

HYDROLOGY

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

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

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: RAIN DURING DELINEATION
- RAIN WITHIN 12 HRS

ID: AR079B-UP

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	O	10YR 2/1	NONE	—	OM
1-10	A	10YR 3/4	NONE	—	SILTY SAND
10-18	B	10YR 6/8	NONE	—	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: NO REFUSAL OF AUGER

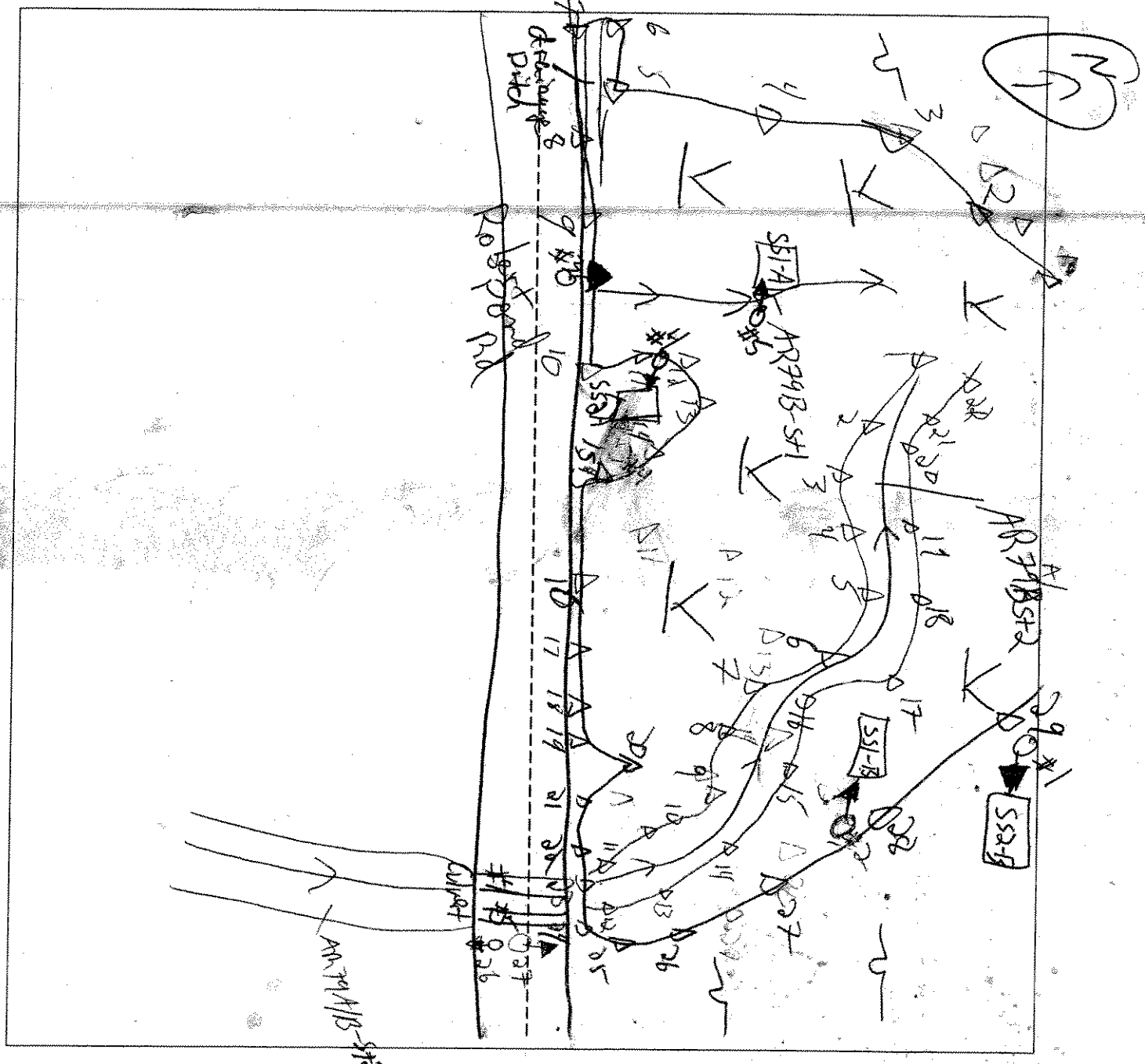
WETLAND DETERMINATION

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 79B / AR 79B-SH / AR 79A/B-SH2	Date: 10/23/05	Time: 15:00
Intials of Delineators: KA, AK	Location: Clinton Co.	
Roll #: 5	Frames: 5, 4, 3, 2, 1 Roll 6 # 27 N, 26 S	



Legend

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

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

Project Site: Clinton County Windfarm Applicant/Owner: Horizon Investigator: EDS, KH	Date: 10/25/05 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: WETLAND Transect ID: ARZ9C Plot ID: SS1A

VEGETATION PSS

Plant Community Classification:
Percent Canopy Cover: Tree: 10 Shrub: 70 Herb: 100 Vine: 2

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Spp. White Cedar	T	FACW	9. Sphagnum	H	—
2. "	S	FACW	10. Blue top fescue	H	FACW
3. Speckled Alder	S	FACW+	11. Fowl Meadow Grass	H	FACW
4. Red Osier Dogwood	S	FACW+	12. Carex Gynocrata	H	OBL
5. Meadow Sweet	S	FACW	13. Iris sp.	H	—
6. Beaked willow	S	FACW	14.		
7. Silky willow	S	OBL	15.		
8 Sensitive Fern	H	FACW	16.		

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

Remarks:
cattails in other portions of wetland

HYDROLOGY

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

Field Observations:
Depth of Surface Water (in.): 6 in
Depth to Free Standing Water in Pit (in.): Ø
Depth to Saturated Soil (in.): Ø

Wetland Hydrology Indicators:
Primary Indicators:
_X_ Inundated
_X_ 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: flowing

AR 79 e-wk

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.
0-9	O/A	10YR-2/1			loam w/ organics
9-18	B	Gley-5Y-4/1	10YR-6/1	few/med/distinct	clay

Hydro Soil Indicators

- ___ Histosol
- X Histic Epipedon
- X 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

		(Circle)
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

79
AR24C-WL2

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

Project Site: Clinton Co. wind farm Applicant/Owner: Horizon Investigator: K/H, RD	Date: 10/25/05 County: Clinton State: NJ
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: AR24C-SS1B 79

VEGETATION

PFO4

Plant Community Classification:

Percent Canopy Cover: Tree: 80 Shrub: 40 Herb: 30 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Atlantic white cedar	T	FACW	9.		
2. "	S	FACW	10.		
3. Gray Birch	T	FAC	11.		
4. "	S	FAC	12.		
5. Mountain Alder	S	FAC	13.		
6. Speckled Alder	S	FACW+	14.		
7. Wood fern	H	FAC+	15.		
8 Sensitive fern	H	FACW	16.		

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

Remarks: upland hummocks within wetland area

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.): NA

Depth to Free Standing Water in Pit (in.): 2 in

Depth to Saturated Soil (in.): 0

Wetland Hydrology Indicators:

Primary Indicators:
- ___ Inundated
- X 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: raining today

ID: AP79C-wl2

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.
0-8	A	10YR-4/1			Silty clay
8-14	A1	10YR-6/2	10YR-5/6	Abundant/large/distinct	clay

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ 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: refusal of Auger 14 inches

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	(Yes) No	(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 (Circle)

Remarks

AR79C-OPL

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

Project Site: Clinton County Wastewater Applicant/Owner: Horizon Investigator: JCH KH	Date: 10/25/05 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: UPland Transect ID: AR79C Plot ID: 552

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 65 Shrub: 10 Herb: 5 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. White ~~Cedar~~ Cedar	T	FACW	9. Weed Fern	H	FAC+
2. Gray Birch	T	FAC	10. RS		
3. White Cedar	S	FACW	11.		
4. Gray Birch	S	FAC	12.		
5. Red Maple	S	FAC	13.		
6. Rubus Allegheniensis	S	FACU	14.		
7. Partridge Berry	H	FACU	15.		
8 Rubus Allegheniensis	H	FACU	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 66%

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
__X__ 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 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:

raining today

AP79C-UPL

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	A		10YR-3/2		silt loam/with organics
2 - 8	A_1		10YR-3/3		silt loam
10 - 18	A_2		10YR-4/4		" "

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:

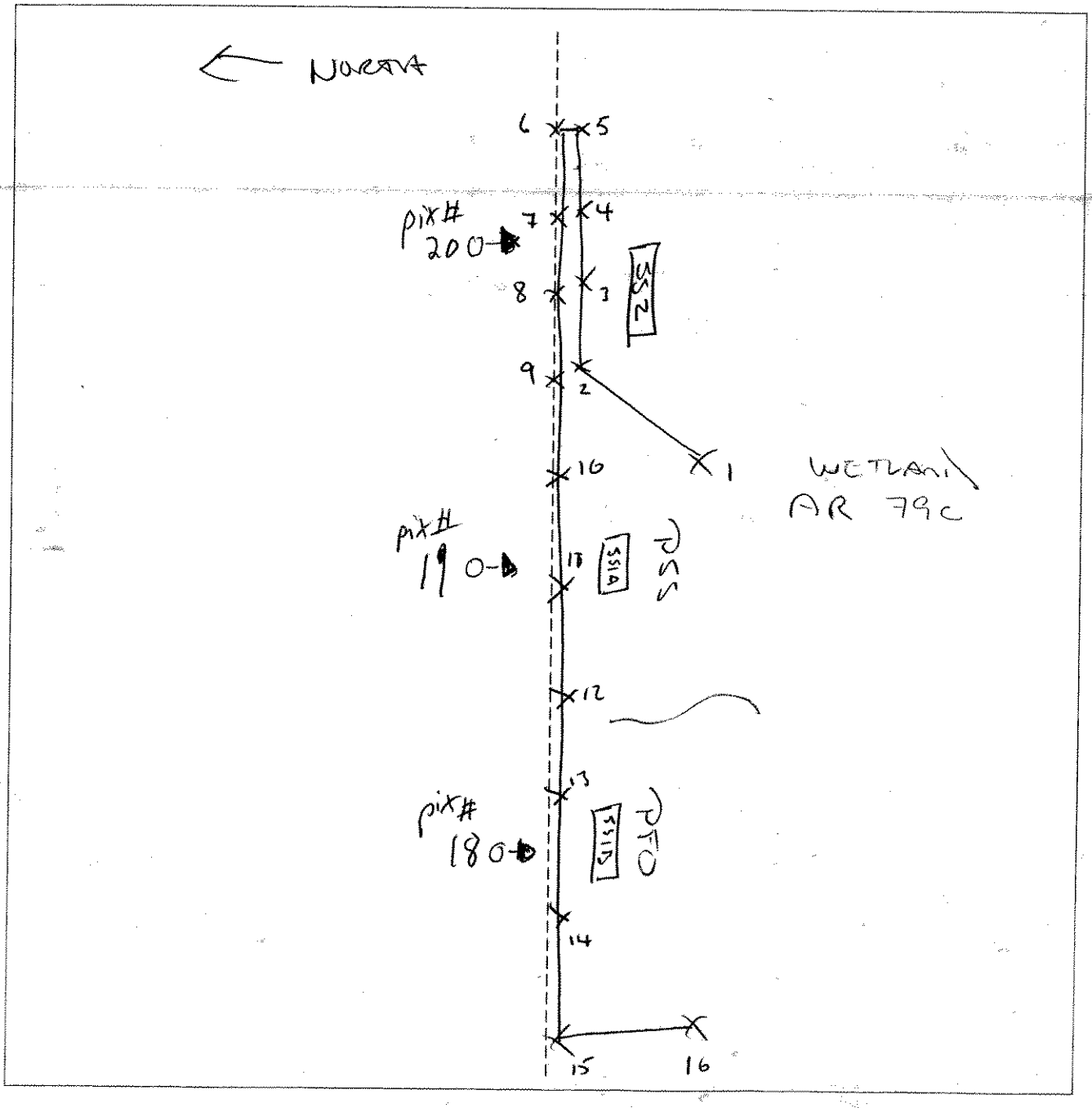
WETLAND DETERMINATION

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

SKETCH FORM

Wetland ID/Route #: AR 79C / ROSHARE POND RD.	**Date:** 10/25/05 **Time:** 0830
Intials of Delineators: TAH, KH	**Location:** ROSHARE POND RD.
Roll #: 6 **Frames:** 20, 19, 18	



Legend

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

AR80/81-A

AR80A-WL

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

Project Site: Clinton Co. Applicant/Owner: Horizon Investigator: RD, JSH	Date: 10/25/05 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: PSS Transect ID: Plot ID: AR 80A-SS1

VEGETATION

Plant Community Classification: PSS

Percent Canopy Cover: Tree: 25 Shrub: 40 Herb: 100 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. White Cedar	T	FACW	9.		
2. Speckled Alder	S	FACW+	10.		
3 Carex Crinata	H	OBL	11.		
4. Sphagnum Moss	H	—	12.		
5. Fern sp.	H	—	13.		
6. Fowl Meadow Grass	H	FACW	14.		
7. Sensitive fern	H	FACW	15.		
8 Willow Herb	H	OBL	16.		

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

Remarks: - American Elm - subdominate T
- Roll 6 pix# 17 looks SE

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge _X_ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: _X_ Inundated _X_ 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.): 2 in places Depth to Free Standing Water in Pit (in.): 0 Depth to Saturated Soil (in.): 0	

Remarks: It's raining

ID: A280A-WL

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	O	10YR-2/1			Peat/organics

Hydro Soil Indicators

- X Histosol
- ___ Histic Epipedon
- X 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: Sphagnum Bog (floating)

WETLAND DETERMINATION

		(Circle)	(Circle)
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
		Is this an Isolated Wetland?	Yes No

Remarks

AR80181-A

AR80A-UPL

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

Project Site: Clinton Co Applicant/Owner: Horizon Investigator: RD, KH	Date: 10/25/05 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: upland forest Transect ID: Plot ID: AR80A-SS2

VEGETATION

Plant Community Classification: upland forest

Percent Canopy Cover: Tree: 80 Shrub: 15 Herb: 5 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. White cedar	T	FACW	9. Bracken Fern	H	FACU
2. Balsam Fir	T	FAC	10. club moss	H	FAC
3. Acer Rubrum	T	FAC	11. Canada violet	H	—
4. Black cherry	T	FACU	12.		
5. Acer Rubrum	S	FAC	13.		
6. Balsam Fir	S	FAC	14.		
7. wood fern	H	FAC+	15.		
8 American Elm	T	FACW-	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 80%

Remarks: transitional area

Roll 6 pix #16 looks W

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
X 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 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: Raining - false Hydro positive

ID: AM80A UPL

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.
0-2	O	10YR-3/3			Organics
2-10	A	10YR-2/1			loam w/ organics

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:

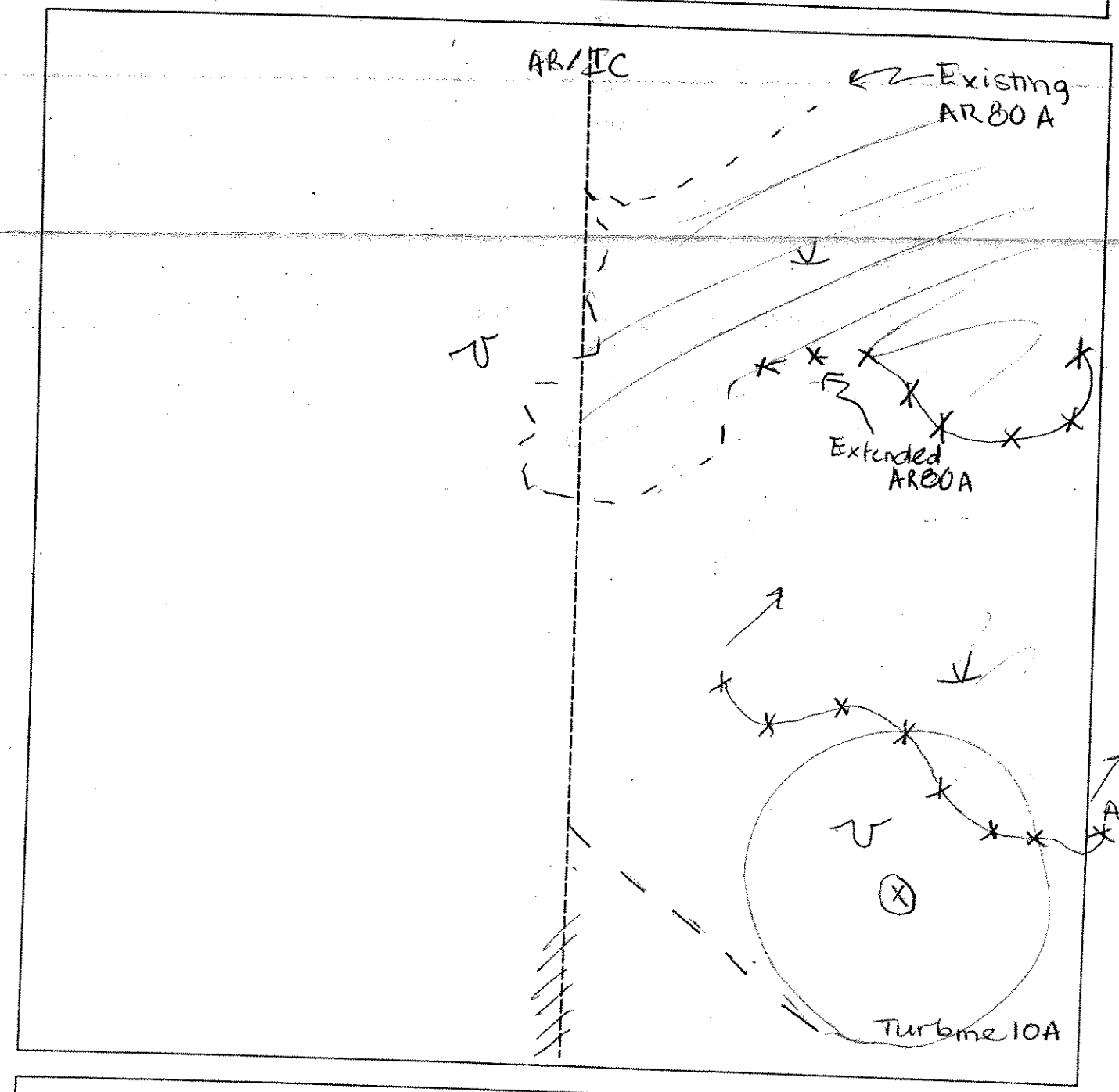
WETLAND DETERMINATION

Hydrophytic Vegetation Present?	(Yes) No	(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

Line extension AR80/81A **SKETCH FORM**

Wetland ID/Route #: AR80A AR1151A	**Date:** 9-7-06 **Time:**
Intials of Delineators: JB, JV	**Location:** AR to Turbine 10A
Roll #: **Frames:**	



Legend

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

AR80/81-A

AR81B-WL2

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

Project Site: Clinton Co. Applicant/Owner: Horizon Investigator: KH, ND	Date: 10/25/05 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: PFO/PSS Transect ID: Plot ID: AR81B-SS1

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 40 Shrub: 60 Herb: 80 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. White Cedar	T	FACW	9. Purple stem Aster	H	OBL
2. Balsam Fir	T	FAC	10. Sensitive Fern	H	FACW
3. Red Maple	T	FAC	11. Elder Berry	S	—
4. American Elm	T	FACW-	12. Carex intumescens	H	FACW+
5. " "	S	FACW	13.		
6. Gray Birch	T	FAC	14.		
7. " "	S	FAC	15.		
8 Speckled Alder	S	FACW+	16.		

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

Remarks: roll 6 # 15 100ss N at SS1

HYDROLOGY

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

Field Observations:
Depth of Surface Water (in.): 4
Depth to Free Standing Water in Pit (in.): 0
Depth to Saturated Soil (in.): 0

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in upper 12 inches
X Water Marks
___ Drift lines
___ Sediment Deposits
X 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: raining/ snowing

ID: AR8113-WL2

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	O	10YR-2/1			loam w/organics
6-12	A	10YR-6/2			sandy clay
"	"	10YR-5/2			" "
12-18	B	Gley 5GY-6/1			clay

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	(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

AR80/81-A

AR81B-UPL

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

Project Site: Clinton Co. Applicant/Owner: Horizon Investigator: K/A, BD	Date: 10/25/05 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: Upland Forest Transect ID: Plot ID: AR81B-SS2

VEGETATION

Plant Community Classification: Upland Forest

Percent Canopy Cover: Tree: 75 Shrub: 20 Herb: 5 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Balsam Fir	T	FAC	9.		
2. Red Maple	T	FAC	10.		
3. Black cherry	T	FACU	11.		
4. White Cedar	S	FACW	12.		
5. Balsam Fir	S	FAC	13.		
6. wood fern	H	~~FACU~~	14.		
7. ~~tree~~ tree like club moss	H	FAC	15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 85%

Remarks: roll 6 #14 100 KS w/ out SS2

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
X 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.): @/A heavy rains

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X 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: raining/snowing
false positive for Hyd.

ID: TB18-UP

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	10YR-2/1			loam
"	"	5YR-3/3			Organic
3-9	B1	10YR-5/8			Sandy clay
9-12	B2	7.5YR 4/4			silt loam
12-18	B2	10YR-4/6			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	(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 Heavy Rains - False Positive Hydro

AR80/81-A

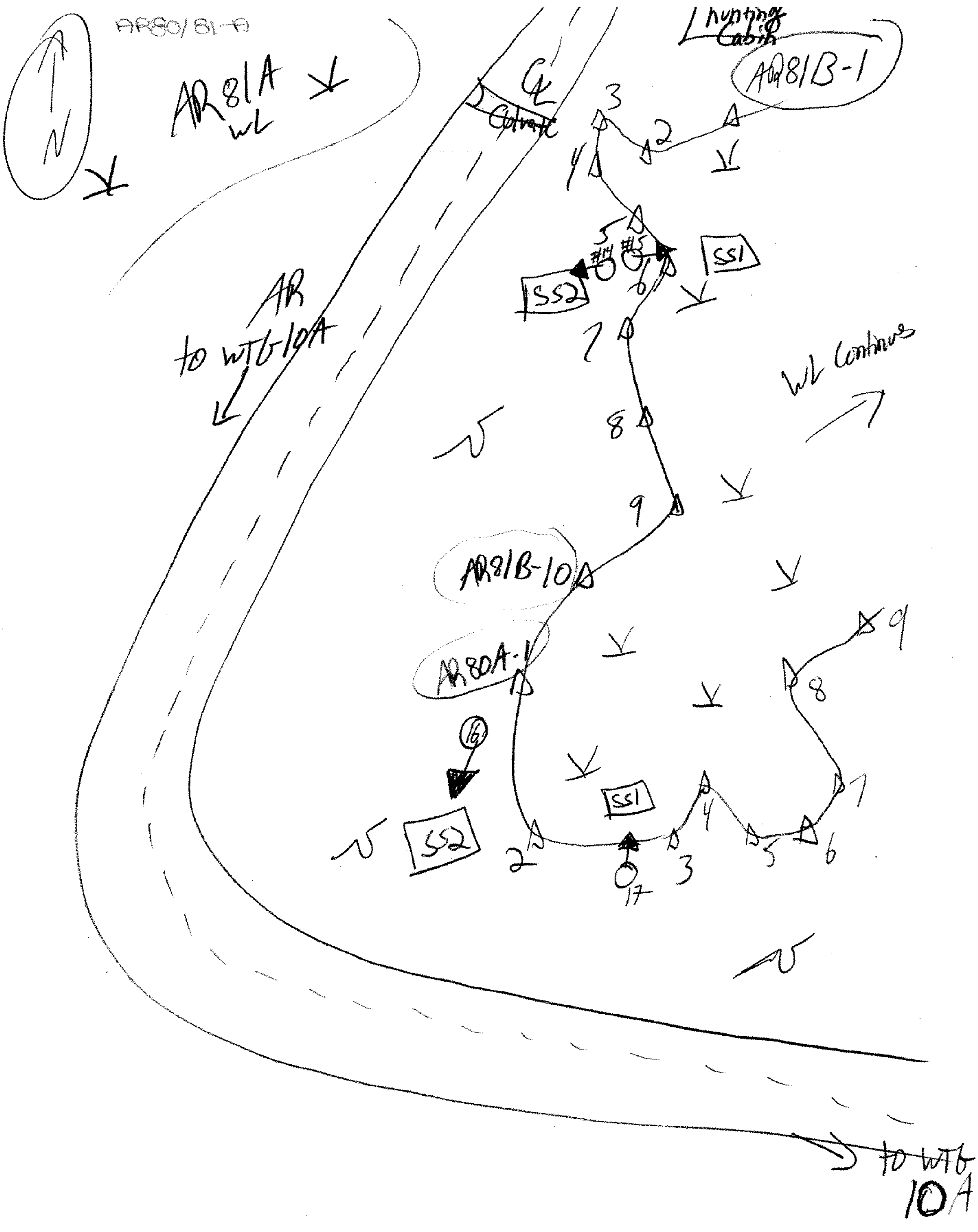
SKETCH FORM

Wetland ID/Route #: AR80A comments to AR81B	**Date:** 10/25/05 **Time:**
Intials of Delineators: KH, BD	**Location:** clinton Co. AR to WTG 10A
Roll #: 6 **Frames:** 17, 16, 15, 14	

*SEE OVER

Legend

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


AR80/81-A
N
AR81A
WL
C/L
Culvert
Hunting Cabin
AR81B-1
3
2
4
5
#14
#15
SS1
SS2
6
7
AR
to WTG-10A
WL Continues
8
9
AR81B-10
AR80A-1
9
8
16
SS1
SS2
4
7
2
3
5
6
17
to WTG 10A

AOR 81A-WL

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

Project Site: Clinton Co. Applicant/Owner: Horizon Investigator: KH, RD	Date: 10/29/03 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: Open water Plot ID: AOR 81A-SS1

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 10 Shrub: 35 Herb: 20 Vine: 0 OW-75

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. White Cedar	T	FACW	9.		
2. Speckled Alder	S	FACW+	10.		
3. Red Osier D. w.	S	FACW+	11.		
4. Meadow Sweet	S	FAC+	12.		
5. American Elm	T	FACW-	13.		
6. " "	S	FACW-	14.		
7. Wool Grass	H	FACW+	15.		
8 Iris sp.	H	—	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
X Aerial Photographs
___ Other
___ No Recorded Data Available

Field Observations:
Depth of Surface Water (in.): >1 Ft
Depth to Free Standing Water in Pit (in.): 0
Depth to Saturated Soil (in.): 0

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X 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: Heavy Rain / light snow

ID: AR81A-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.
0-7	A	10YR-2/1			loam
7-14	A1	10YR-5/2			clay loam
"	"	10YR-2/1			" "

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
X 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: refusal Auger at 14 inches

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

AR81A-UPL

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

Project Site: clinton County Applicant/Owner: Horizon Investigator: HH, RD	Date: 10/25/05 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: upland forest Transect ID: Plot ID: AR81A-SS2

VEGETATION upland Forest

Plant Community Classification:
Percent Canopy Cover: Tree: 30 Shrub: 40 Herb: 50 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Balsam Fir	T	FAC	9. Grass Sp	H	—
2. Black cherry	T	FACU	10. Wood Fern	H	FAC+
3. Red Maple	S	FAC	11.		
4. Red Oak	S	FACU-	12.		
5. Balsam Fir	S	FAC	13.		
6. Mountain Alder	S	FAC	14.		
7. Rubus Allegheniensis	S	FACU-	15.		
8 " "	H	FACU-	16.		

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

Remarks: roll 6 pic## 13 + 12 look NW at SS1 + SS2

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge X Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: ___ Inundated X 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.): N/A Depth to Free Standing Water in Pit (in.): N/A Depth to Saturated Soil (in.): 0	

Remarks: Heavy rains / snowing light

ID: AR81A-UPL

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	8	10YR-2/1			Silt loam
4-8	A	10YR-5/3			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 of Auger at 8 inches

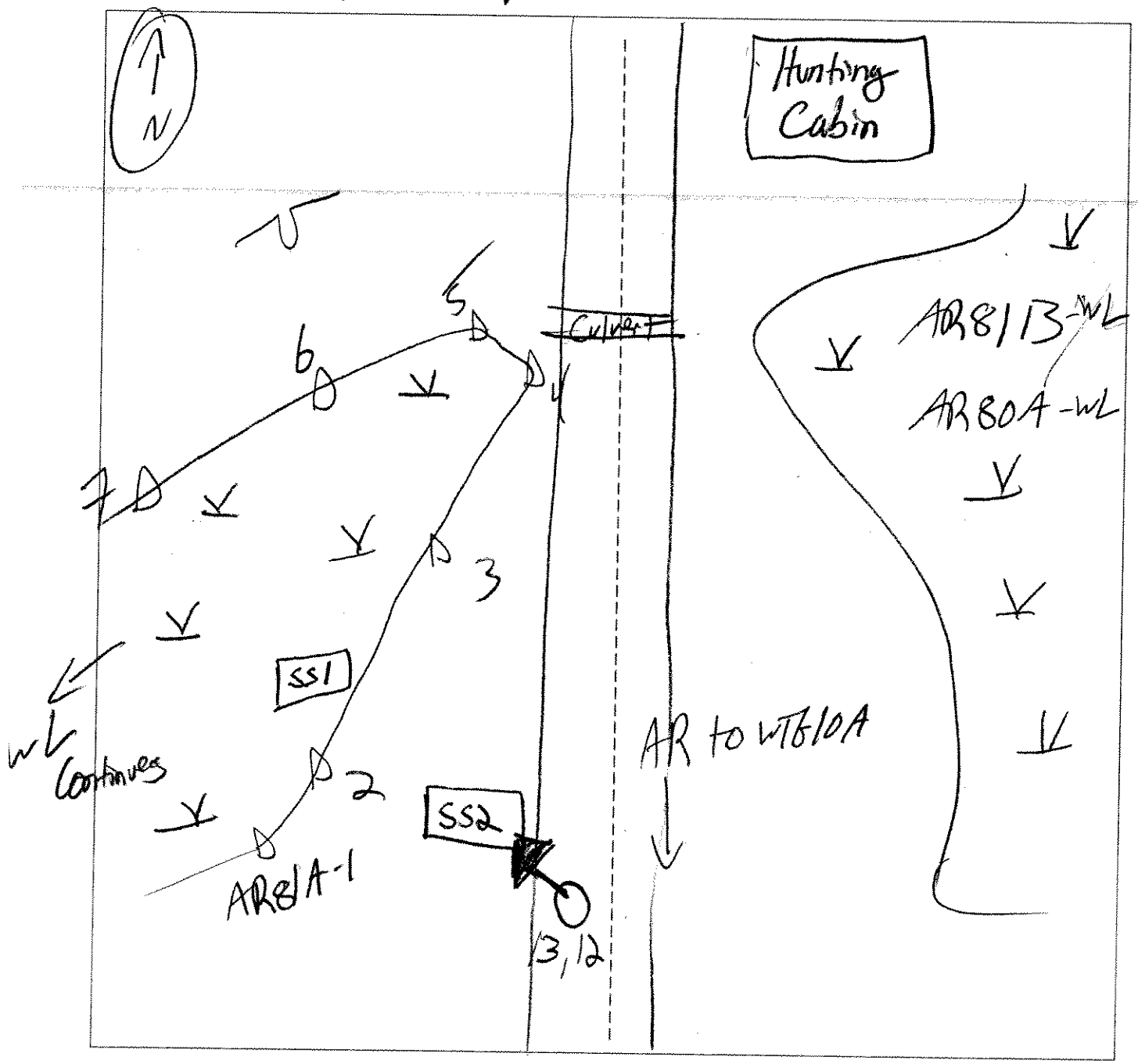
WETLAND DETERMINATION

		(Circle)	(Circle)
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)
		Is this an Isolated Wetland?	Yes No

Remarks: Hydro - false positive

SKETCH FORM

Wetland ID/Route #: AR8/A	**Date:** 10/25/05 **Time:** 13:30
Intials of Delineators: KT, RD	**Location:** Clinton Co. AR to WTB10A
Roll #: 6 **Frames:** 13, 12 - same picture x 2	

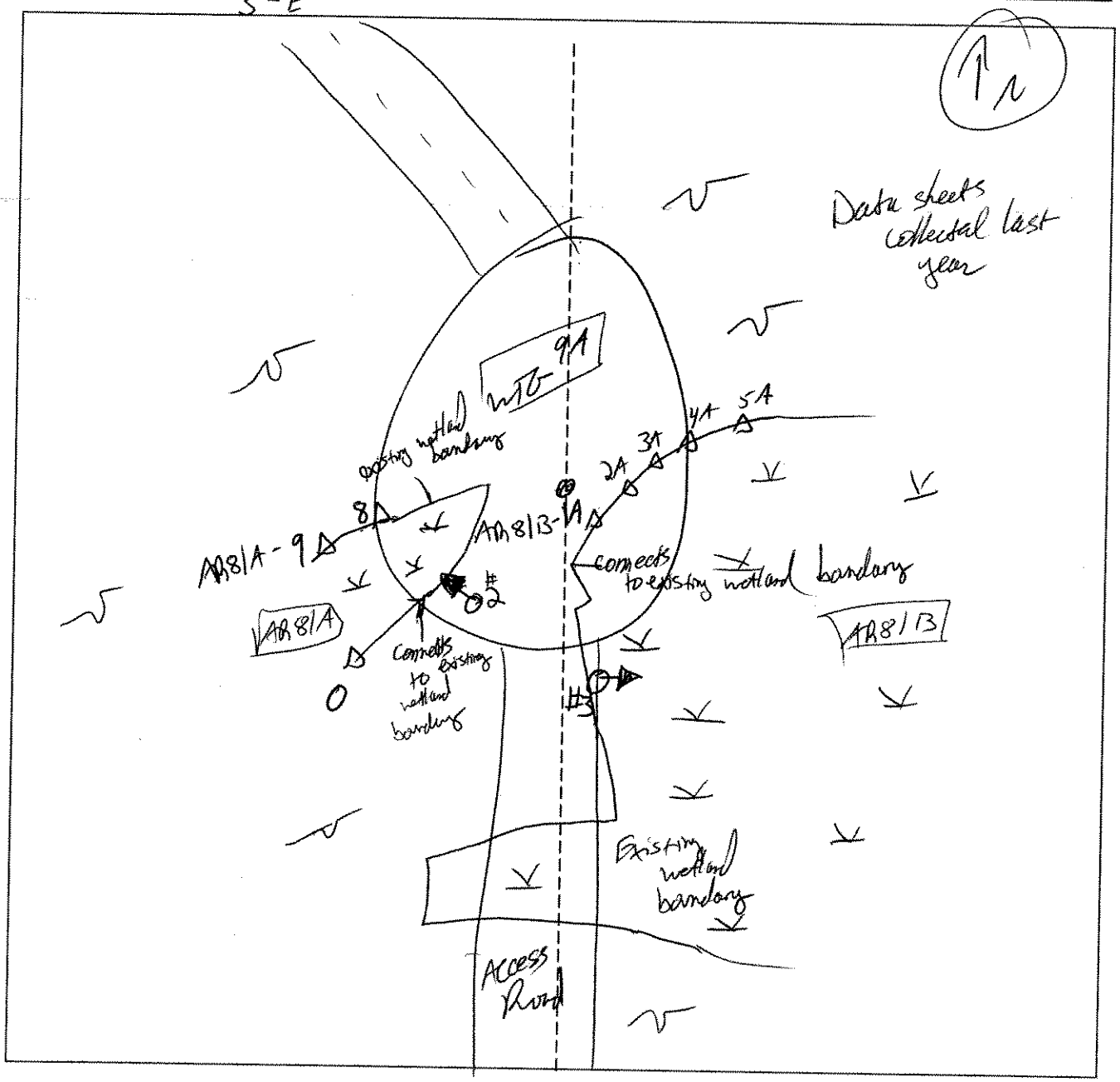


Legend

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

SKETCH FORM

Wetland ID/Route #: AR 8/A / AR 8/B	**Date:** 5/17/06 **Time:**
Intials of Delineators: BR, ISH	**Location:** WF 9A
Roll #: ISH **Frames:** 2-W 3-E	

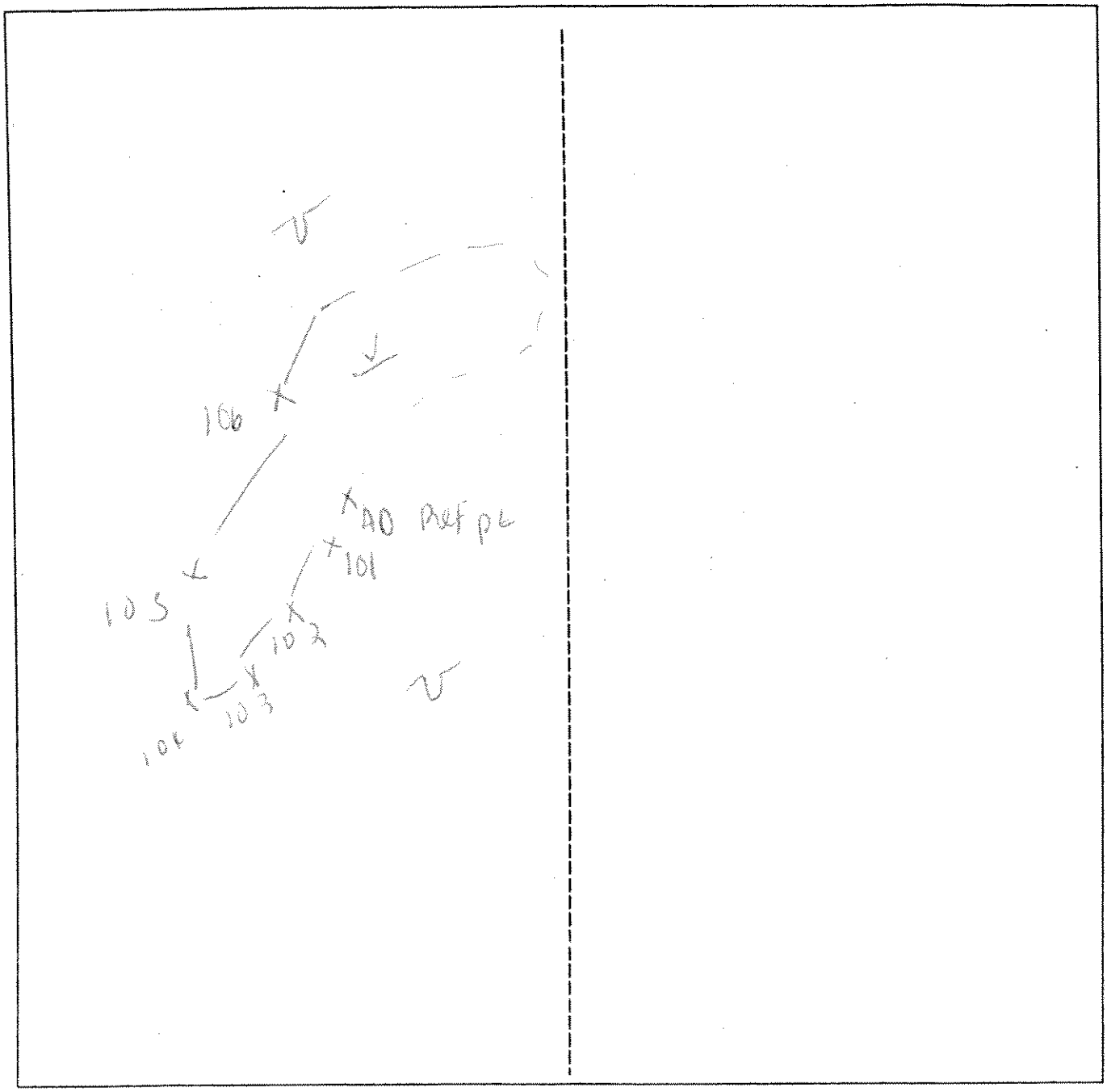


Legend

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

SKETCH FORM

Wetland ID/Route #:	Date: Time:
AR01A - extended	10/12/06
Intials of Delineators:	**Location:**
JB JV	Roxbury pond Road
Roll #: **Frames:**	



Legend

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

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

Project Site: Clinton Co. Wind Farm Applicant/Owner: HORTON Investigator: J. Arnett, S. Ryan	Date: Oct. 7, 2008 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: AR102A SS1

VEGETATION PEM

Plant Community Classification:
Percent Canopy Cover: Tree: 0 Shrub: 0 Herb: 10-25 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Juncus effusus	Herb	FACW+	9.		
2. Polygonum hydropiper	Herb	N1	10.		
3. Scirpus microcarpus	Herb	OBL	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8			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.): 0

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

Depth to Saturated Soil (in.): To surface

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: Saturated to the surface

ID: AR102 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.
0-4	A	10YR 3/2	10YR 5/8	Few Comm small	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	(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 Cattle were getting agitated around us, so we did this wetland quickly - poor quality, heavily compacted + grazed

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

Project Site: Clinton Co. Wind Farm Applicant/Owner: Horizon Investigator: J. Arnett, S. Ryan	Date: 7 Oct 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: AR 102 ASS 2 upland

VEGETATION Open upland

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. Trifolium repens	Herb	NI	9.		
2. Misc pasture grasses	Herb	NI	10.		
3. Plantago major	Herb	FACU	11.		
4. Leontodon autumnalis	Herb	NI	12.		
5.			13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0

Remarks: Heavily grazed, unable to distinguish grass species.

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 hydrologic indicators

ID: AR102AS52

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	A	10YR 4/3	—	—	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: Soil nearly impossible to dig into because of compaction + rockiness.

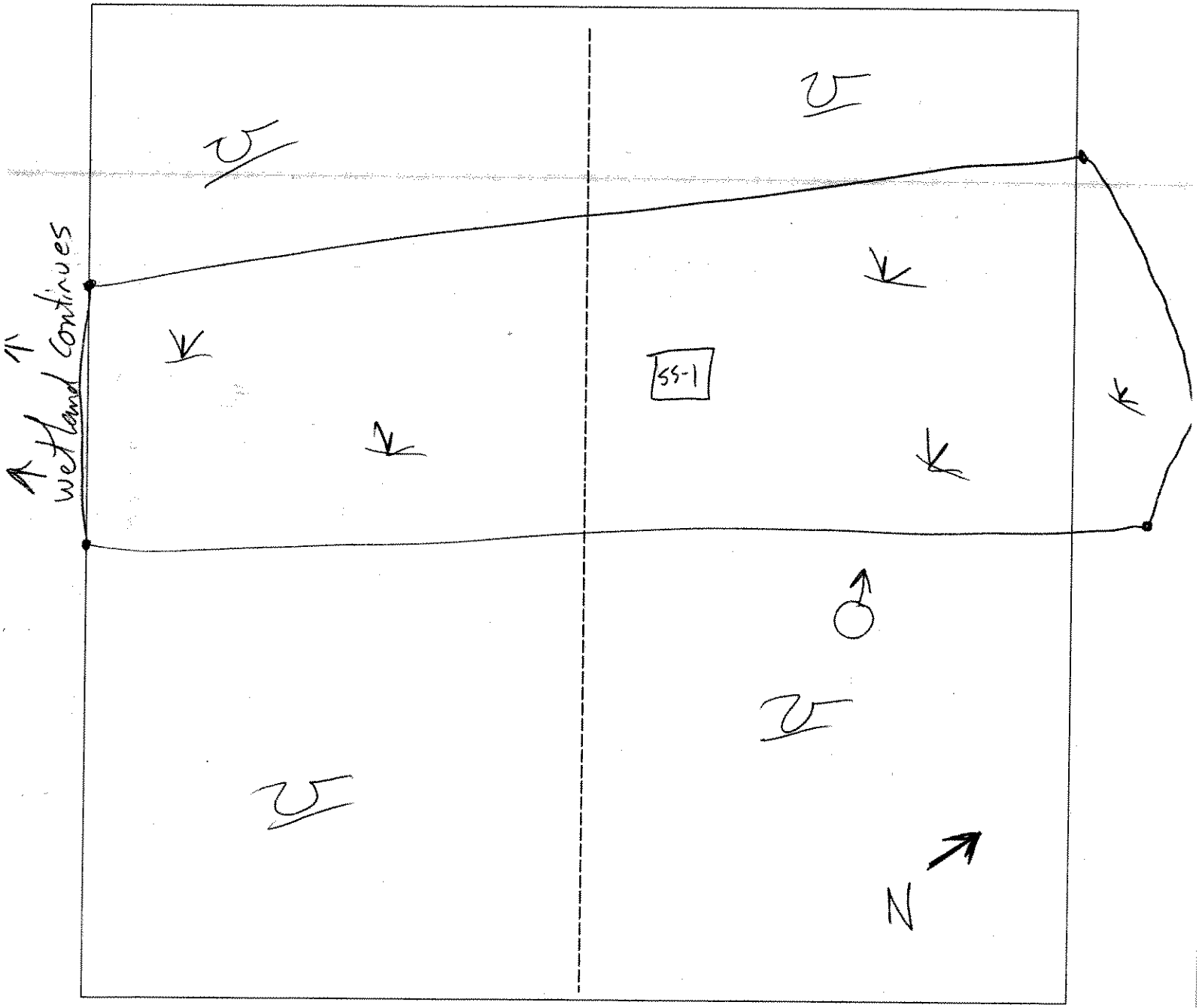
WETLAND DETERMINATION

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 #:	Date: Time:
AR102A	7 Oct 2005 10:30
Intials of Delineators:	**Location:**
JA, SR	Clinton Co Wind Farm
Roll #: **Frames:**	
Photo looks NW	

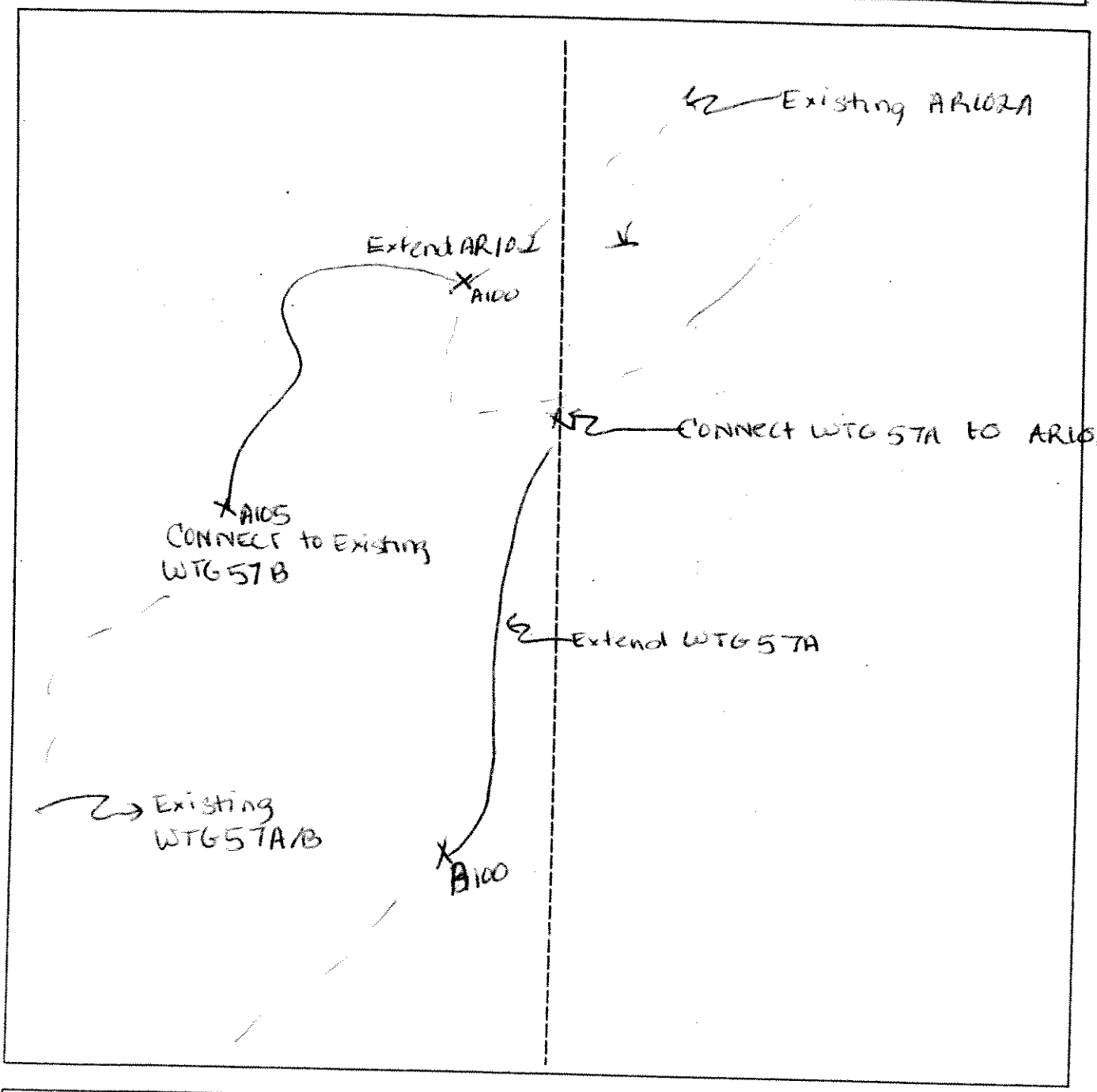


Legend

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

SKETCH FORM

Wetland ID/Route #: AR102A (extend) WTG 57A (extend)	**Date:** 10/13/06 **Time:** 1120
Intials of Delineators: IB JV	**Location:** TAround bld T. 57 159
Roll #: **Frames:**	



Legend

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

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

Project Site: Clinton Co. Wind Farm Applicant/Owner: Horizon Investigator: JA, SR	Date: 7 Oct 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: AR103AB SS-1

VEGETATION PEM

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

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Aster vimineus	Herb	FAC	9.		
2. Impatiens capensis	Herb	FACW	10.		
3. Onoclea sensibilis	Herb	FACW	11.		
4. Solidago rugosa	Herb	FAC	12.		
5. Polygonum hydropiper	Herb	N1	13.		
6.			14.		
7.			15.		
8			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.): 0

Depth to Free Standing Water in Pit (in.): > 14

Depth to Saturated Soil (in.): 0

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X 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: Saturated to the surface

ID: ~~AR~~ 103 ABSS 1

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 - 5	A	10YR 3/2	—	—	silt loam
5 - 7	sand lens	10YR 4/1	10YR 4/4	streaking	sand
7 - 14	B	10YR 5/2	10YR 6/8	few faint med	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	(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 Some of wetland extends out into mowed field, most is PEM surrounded by trees

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

Project Site: Clinton Co. Wind Farm Applicant/Owner: Horizon Investigator: J. Arnett, S. Ryan	Date: 7 Oct 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: AR103 AB SS 2 - upland

VEGETATION Upland Forest

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

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer rubrum	Tree	FAC	9.		
2. Prunus serotina	shrub	FACU	10.		
3. Onoclea sensibilis	Herb	FACW	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 67

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.):

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 indicators of hydrology

ID: AR 103 AB 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	O	10YR 4/4	—	—	Org. loam
1-18	A	10YR 4/4	—	—	Silt loam
18+14	B	10YR 4/6	—	—	Sandy 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: Clear upland forest. Clear wetland boundary

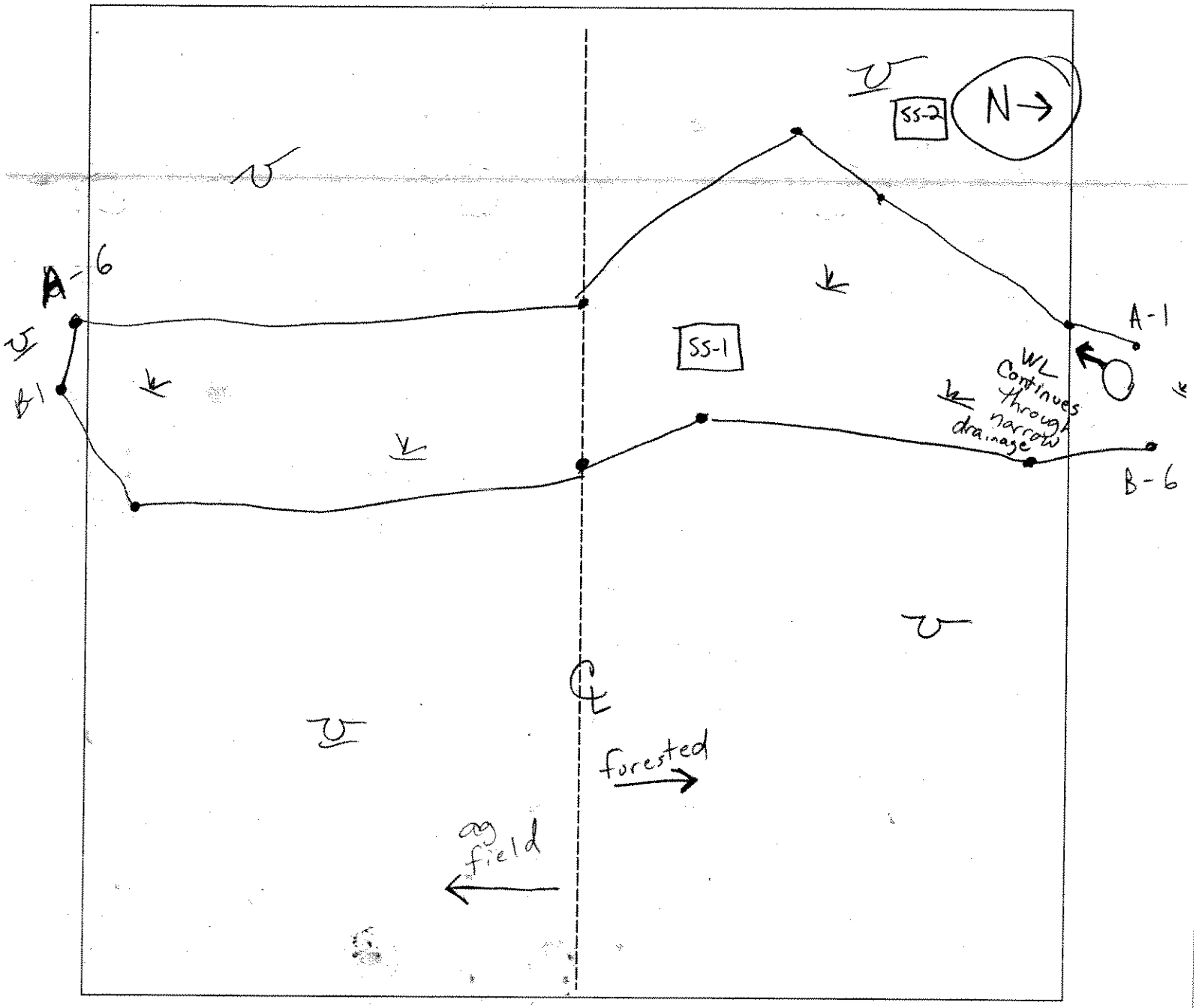
WETLAND DETERMINATION

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 #:	Date:	Time:
AR103AB	7Oct2005	11:00
Intials of Delineators:	**Location:**	
JA, SR	Clinton County Wind Farm	
Roll #: **Frames:**	Photo 1 N SW	



Legend

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

LINE EXTENSION

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: JV AP	Date: 5/5/07 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: PF01 / PSS Transect ID: Plot ID: AR 103 AB SS1

VEGETATION

Plant Community Classification: Red maple Mesic

Percent Canopy Cover: Tree: 40 Shrub: 30 Herb: 90 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer rubrum	T	FAC	9.		
2. Ulmus americana	T	FACW	10.		
3. Prunus serotina	S	FACU	11.		
4. Onoclea sensibilis	H	FACW	12.		
5. Impatiens capensis	H	FACW	13.		
6. Aster sp	H	—	14.		
7.			15.		
8			16.		

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

Remarks: No ind. due to time of year

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.):

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
- ___ Water-Stained Leaves
- ___ Local Soil survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks: Wetland ~~vegetation~~ discharge from adjacent fields located to E + W

Date: 5/5/07
Community ID: PFO1/PSS
Plot ID: AR103 AB 531

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	10YR 3/2	10YR 3/6	Common/fine/faint	Sandy clay loam
12-14	B	10YR 6/2	10YR 6/6	many/med/distinct	Sandy Clay loam

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
X 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 => N

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: JV AP	Date: 5/5/07 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 Transect ID: Plot ID: AR103 A B SSR

VEGETATION

EXTENSION

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

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Taraxicum officinale	H	FACU	9.		
2. Trifolium pratense	H	FACU	10.		
3. Fragaria virginiana	H	FACU	11.		
4. Plantago ssp	H	FAC	12.		
5.			13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 50 %

Remarks:

HYDROLOGY

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

Field Observations: NA

Depth of Surface Water (in.):

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

Depth to Saturated Soil (in.):

Wetland Hydrology Indicators: NA
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: 5/5/07
Community ID: UPL
Plot ID: AR103 AB 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.
0-12	A	10YR 3/2			SiH 100m

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

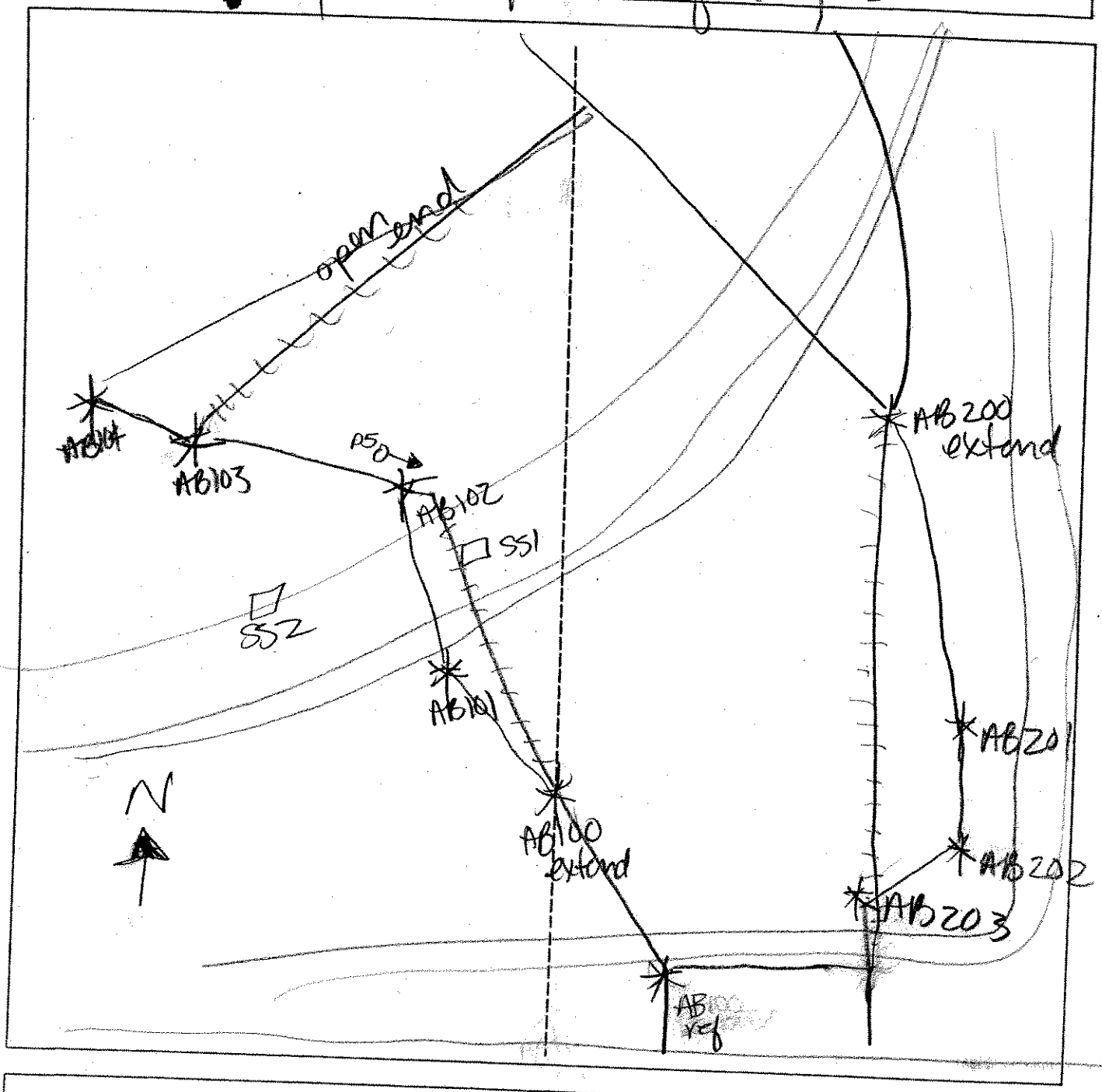
Hydrophytic Vegetation Present? Yes (No)
Wetlands Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

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

Remarks

SKETCH FORM

Wetland ID/Route #: AR103AB EXTENSION	**Date:** 5 May 07 **Time:**
Initials of Delineators: JV - AP	**Location:** AR103AB
Roll #: **Frames:**	photo 5 by AB102 facing SE



Legend

- R5 — Photo Location/Direction
- Sample Station
- Centerline
- Flag
- Wetland
- Upland
- Stream
- Intermittent Stream

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

Project Site: Clinton Co. Wind Farm Applicant/Owner: Horizon Investigator: T. Arnett, S. Ryan	Date: 7 Oct 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: AR 104 ABSS 1

VEGETATION PEM/PSS

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

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Salix	Shrub	FACW+	9. Glyceria canadensis	Herb	OBL
2. Spiraea tomentosa	Shrub	FAC	10.		
3. Solidago rugosa	Herb	FAC	11.		
4. Scirpus cyperinus	Herb	OBL	12.		
5. Aster vimineus	Herb	FAC+	13.		
6. Ranunculus repens	Herb	FAC	14.		
7. Pilea pumila	Herb	FACW	15.		
8. Polygonum sagittatum	Herb	OBL	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 7/8 88%

Remarks: Circled dominants

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.): to 6"

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

Depth to Saturated Soil (in.): 0

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X 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:

AR
ID: 104 ABSS1

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	A	10YR 3/2	—	—	silt loam
2-14	B	10YR 5/2	10YR 6/8	common small distinct	sandy loam

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

Remarks: well developed PSS with drainage ditch to the NW

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

Project Site: Clinton County Wind Farm Applicant/Owner: Horizon Investigator: J. Arnett, S. Ryan	Date: 7 Oct 2005 County: Clinton County State: ~~NJ~~ 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 104 AB SS - 2 upland

VEGETATION Open Uplands.

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

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Trifolium repens 10	Herb	NI	9.		
2. Leontodon autumnalis 10	Herb	NI	10.		
3. Ranunculus repens 40	Herb	FAC	11.		
4. Trifolium pratense 15	Herb	NI	12.		
5. Vicia sp. 15	Herb	NI	13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 20 %

Remarks: Mowed hay field

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: No evidence of hydrology

ID: AR104 ABSS 2

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	10YR 3/2			silt loam
3-8	B	10YR 2/2	10YR 5/8	few faint small	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: Rocky - corrected - could not get deep soil profile,

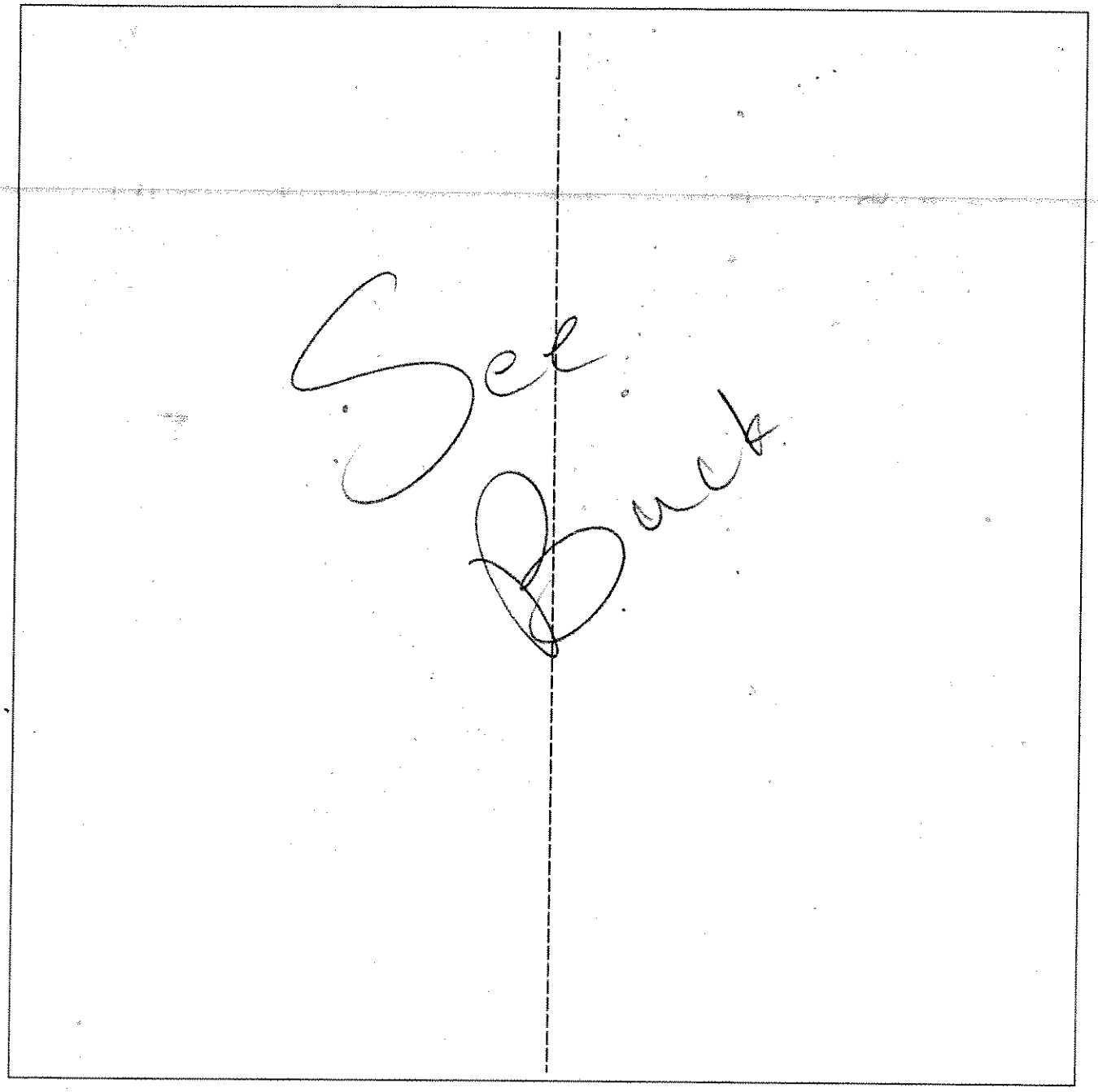
WETLAND DETERMINATION

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

Remarks The boundary is indistinct, the upland is an mowed hay field that grades gradually up from PSS wetland. Based primarily on appearance of upland plants

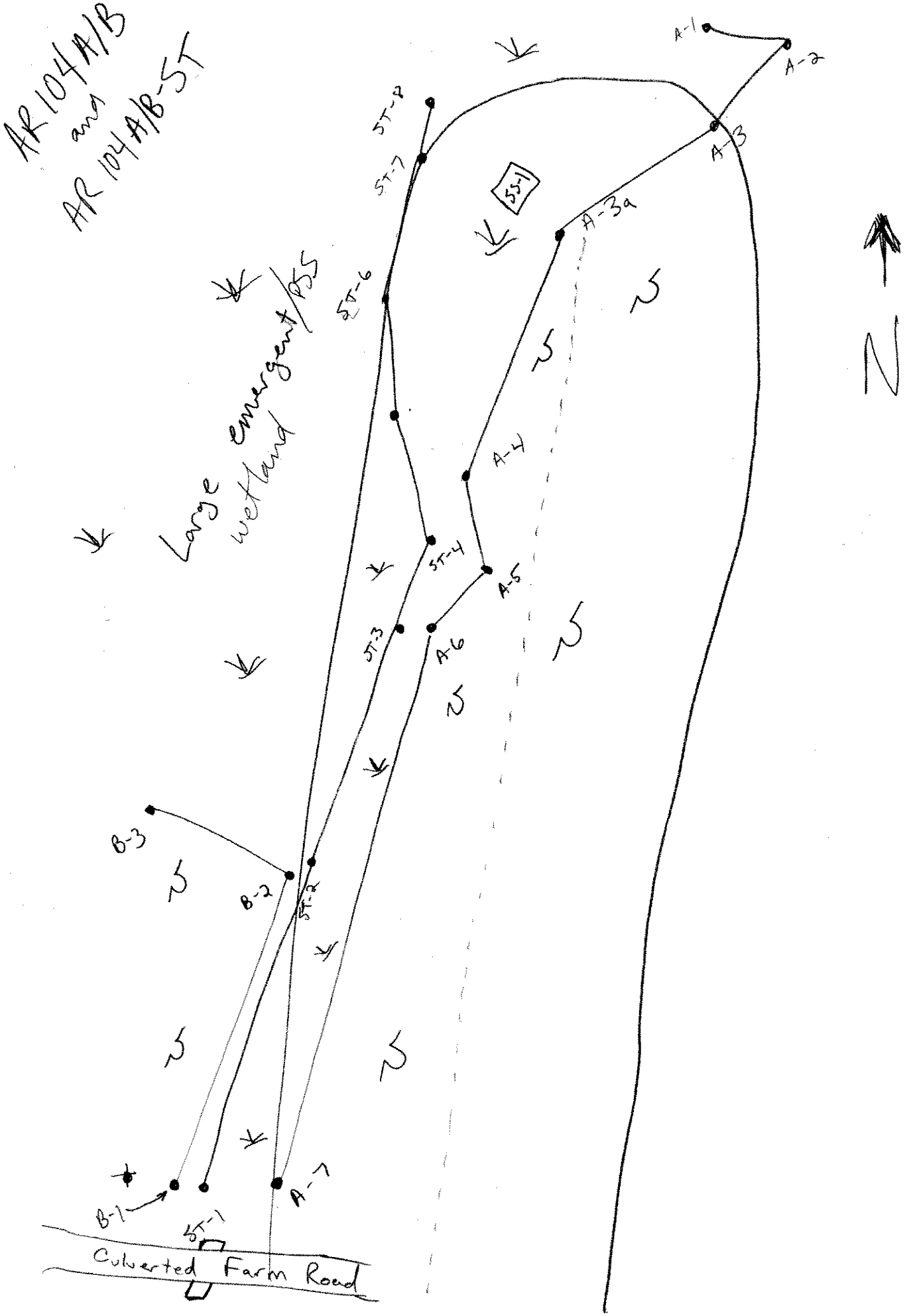
SKETCH FORM

Wetland ID/Route #: AR 104 A/B	Date: 10-7-05	Time: 11:30
Intials of Delineators: SL JA	Location: Clinton County Wind Farm	
Roll #:	Frames:	



Legend

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


AR104A/B
and
AR104A/B-ST
A-1
A-2
A-3
A-3a
A-4
A-5
A-6
A-7
ST-1
ST-2
ST-3
ST-4
ST-5
ST-6
ST-7
SS-1
Large emergent/SS
wetland
B-1
B-2
B-3
Culverted Farm Road
N

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

Project Site: Clinton Co. Wind Farm Applicant/Owner: Horizon Investigator: J. Arneth, S. Ryan	Date: 7 Oct 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: ARIOSASC1

VEGETATION PEM/PSS

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

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Salix 95	Shrub	FAC or wet	9.		
2. Onoclea sensibilis 30	Herb	FACW	10.		
3. Acer rubrum 10	Tree	FAC	11.		
4. Fraxinus pens/nigra 5	Shrub	FACW	12.		
5. Prunus serotina 2	Shrub	FACU	13.		
6.			14.		
7.			15.		
8			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.): 0

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

Depth to Saturated Soil (in.): 0

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: Saturated to the surface. Dense PHAR along forest edge

ID: AR105ASS1

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	—	—	sandy silt loam
6-14+	B	10YR 5/2	10YR 5/6	few faint	sand

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

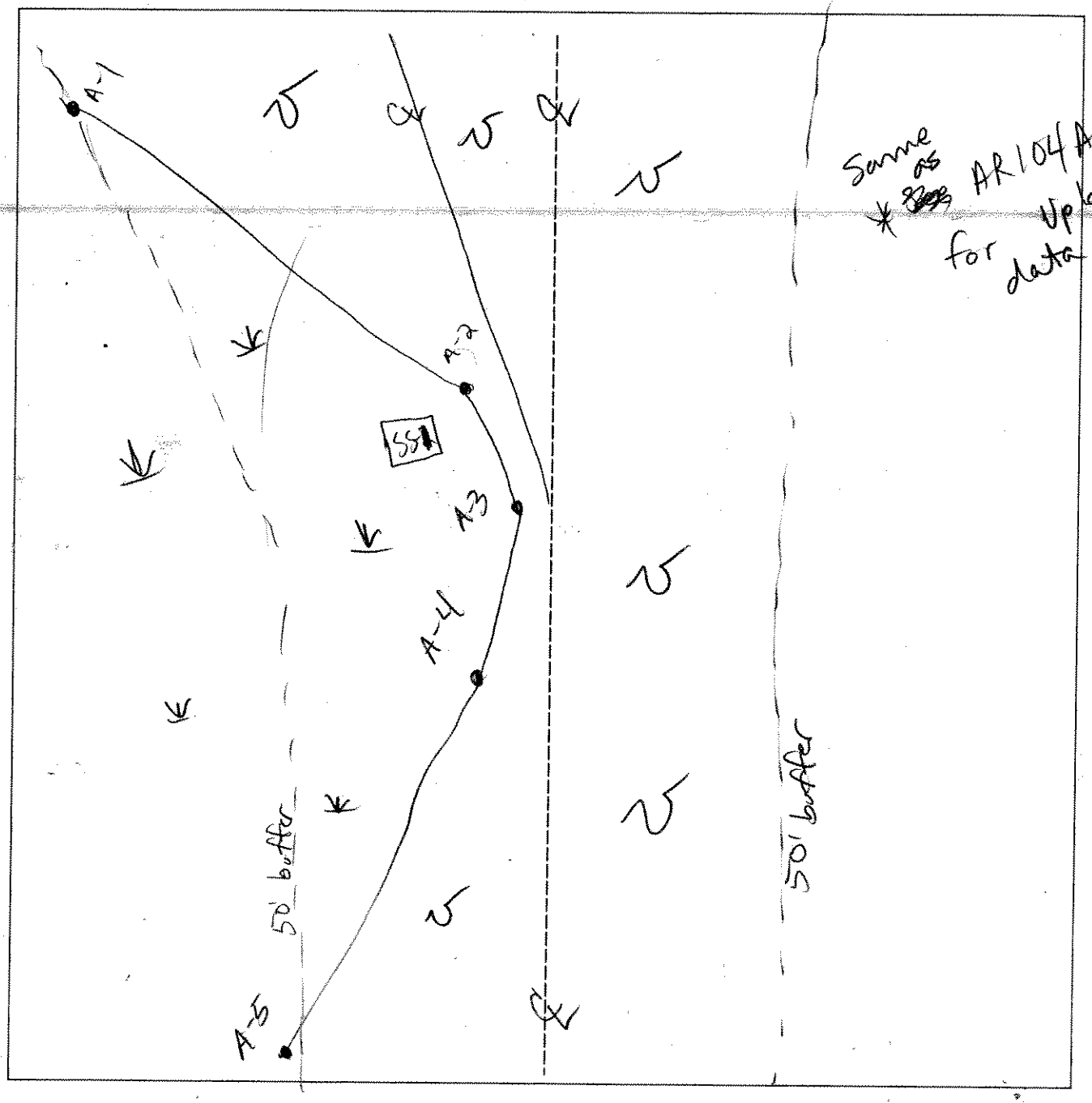
		(Circle)
Hydrophytic Vegetation Present?	(Yes) No	
Wetlands Hydrology Present?	(Yes) No	
Hydric Soils Present?	(Yes) No	
Is this Sample Station Point Within a Wetland?		(Yes) No
Is this an Isolated Wetland?		Yes (No)

Remarks

upland plot cs AR104ABSS2

SKETCH FORM

Wetland ID/Route #: AR 105 A	Date: 10-7-08 Time:
Intials of Delineators: SR JA	Location: Clinton County Wind Farm
Roll #: Frames:	Photo from distance looking W



Legend

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

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

Project Site: Clinton Co. Wind Farm Applicant/Owner: Horizon Investigator: J. Arnett, S. Ryan	Date: 9 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: AR111 AB SS-1

VEGETATION (PTO/PEM)

Plant Community Classification:
Percent Canopy Cover: Tree: 100 Shrub: 5 Herb: 100 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Glyceria striata 20	Herb	OBL	9. Ulmus americana 5	Tree	FACW
2. Carex scabrata 40	Herb	OBL	10.		
3. Athyrium filix femina 15	Herb	FAC	11.		
4. Dryopteris 15	Herb	FAC+	12.		
5. Acer rubrum 50	Tree	FAC	13.		
6. Betula alleghaniensis 50	Tree	FAC	14.		
7. Fagus grandifolia 5	Shrub	FACU?	15.		
8 Impatiens capensis 10	Herb	FACW	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 80

Remarks: Fagus is listed as both FACU and FAC+ – either way, hydrophytes predominate

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: X Inundated X Saturated in upper 12 inches ___ Water Marks ___ Drift lines ___ Sediment Deposits X 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.): to 8" Depth to Free Standing Water in Pit (in.): 0 Depth to Saturated Soil (in.): 0	

Remarks: Saturated to surface throughout, to 8" deep in ponding along stream course

ID: AR111 AB SS-1

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 2/1	—	—	silt loam
6-14	B	10YR 4/1	—	—	—

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	(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 well developed PFO, deep stream channel - water in stream mostly not moving.

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

Project Site: Clinton Co. Wind Farm Applicant/Owner: Horizon Investigator: J. Arnett, S. Ryan	Date: 9 Oct 2007 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 III TB SS-2 upland

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 70 Shrub: 70 Herb: 20% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
✓ 1. Tilia americana 35	Tree	FACU	9. orchid - in fr. +	H	unknown
2. Tsuga canadensis 5	Tree	FACU	10. Aster umbellata +	H	FACU
✓ 3. Betula alleghaniensis 20	Tree	FAC	11. Taraxacum officinale +	H	FACU-
4. Acer saccharinum 10	Tree	FACW-	12.		
✓ 5. Rubus idaeus 50	shrub	FACU	13.		
6. Sambucus canad 10	Shrub	FACW-	14.		
✓ 7. Dryopteris intermed. 20	Herb	FACU	15.		
8 Acer saccharinum 10	Shrub	FACW-	16.		

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

Remarks:

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: No evidence of hydrology

ID: AR 111AB 55-2

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 - 2	Ao	10YR 2/1			duff, peat
2 - 5	A	10YR 2/1			↑ silt loam
5 - 14	B	10YR 5/2	10YR 5/6	Many distinct	↑ silt loam

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:

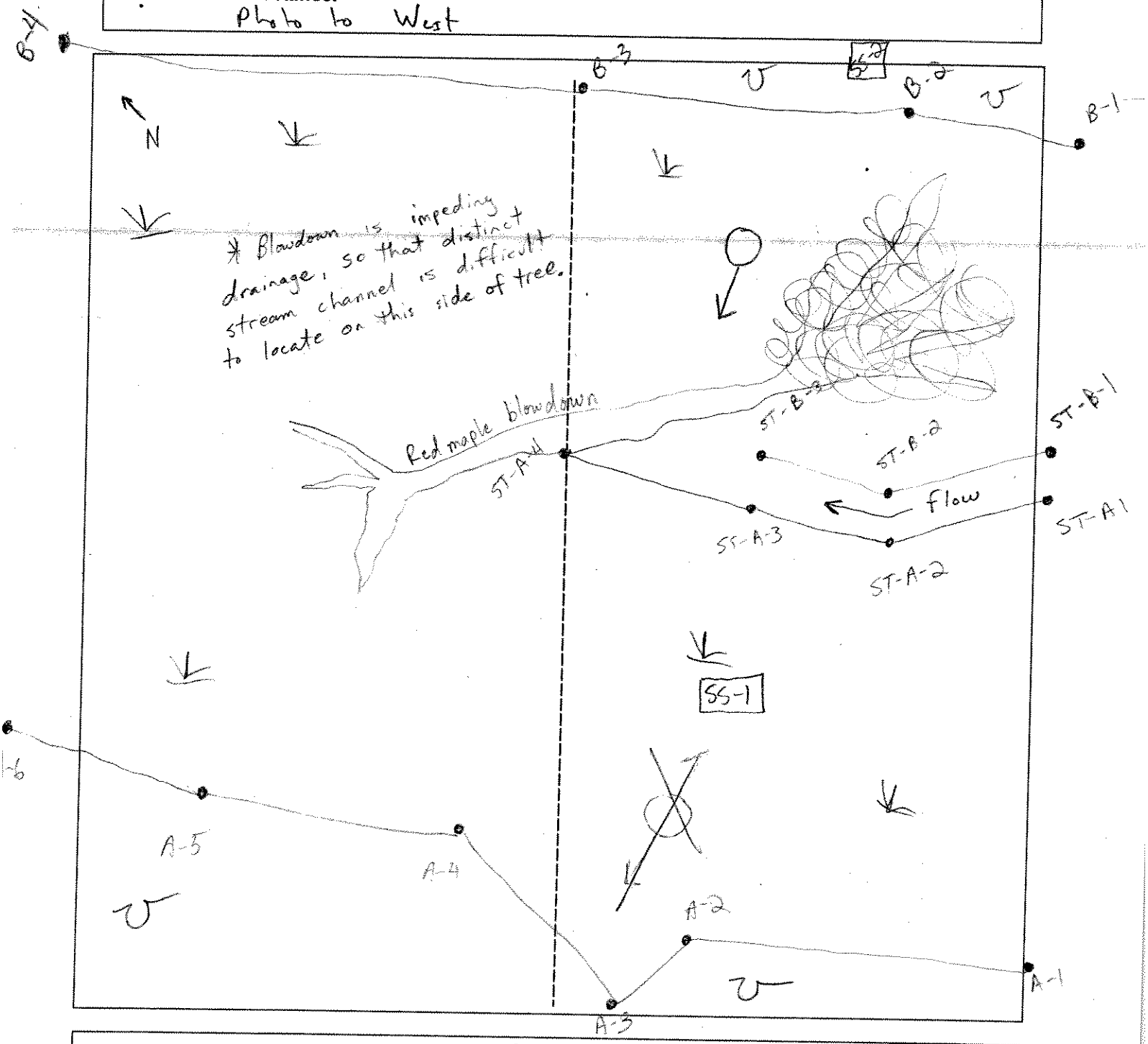
WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes (No)	(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 Terrace above the flat bottom of the creek has plants

SKETCH FORM

Wetland ID/Route #:	Date:	Time:
AR111AB	90ct 2005	10:15
Intials of Delineators: JA, SR	**Location:**	
Roll #:	**Frames:** Photo to West	

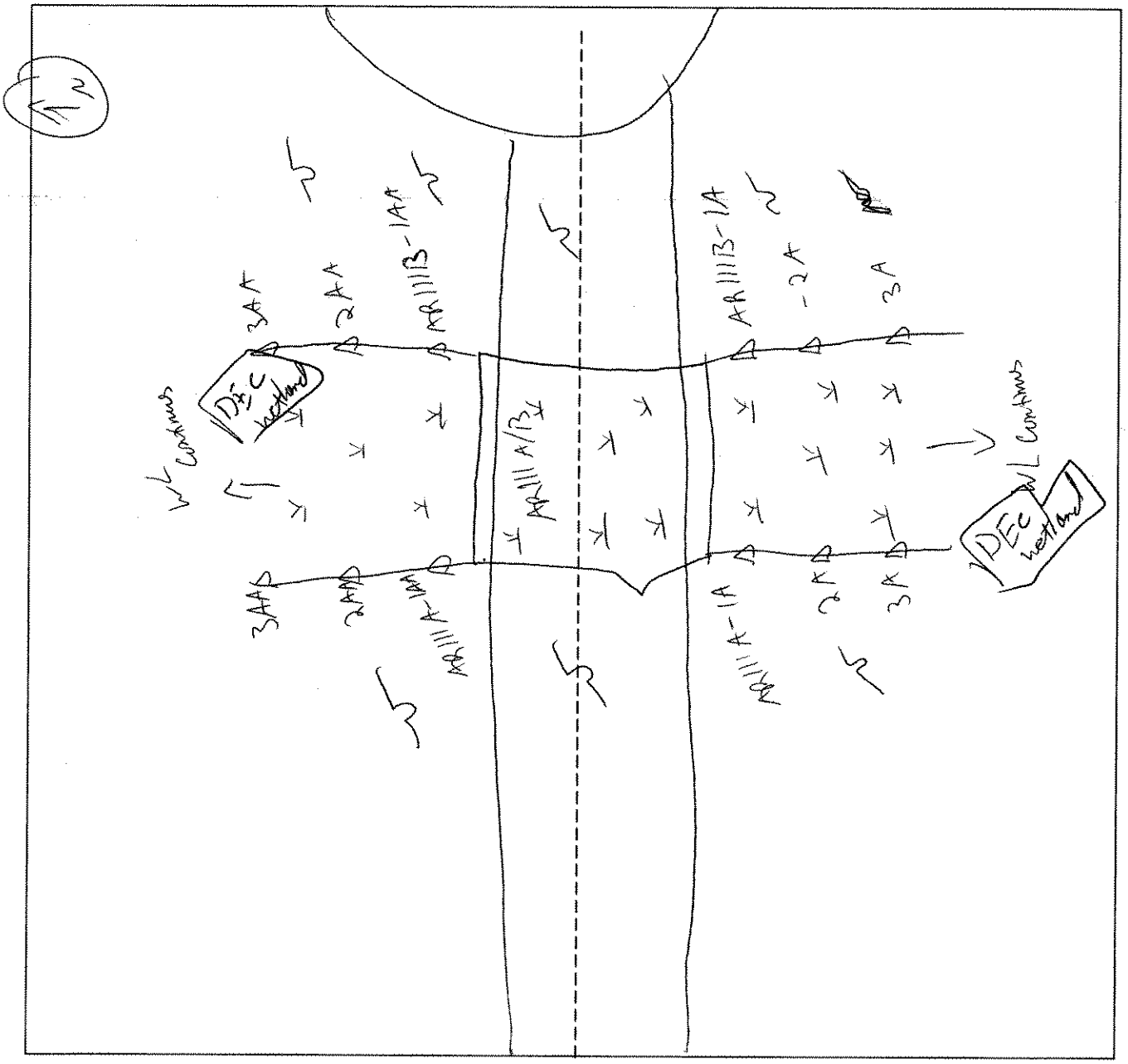


Legend

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

SKETCH FORM

Wetland ID/Route #: AR111 A/B – extension	**Date:** 5/20/06 **Time:**
Intials of Delineators: KH BR	**Location:** AR between WT 206 + WT 55
Roll #: tallon last year **Frames:**	



Legend

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

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

Project Site: Clinton Co. Wind Farm Applicant/Owner: HORizon Investigator: J. Arnett, S. Ryan, J. Farrell	Date: 10 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: AR114 A/B SS-1

VEGETATION (PFO)

Plant Community Classification:

Percent Canopy Cover: Tree: 100 Shrub: 0 Herb: 100 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Betula alleghaniensis 80	T	FAC	9.		
2. Ulmus americana 10	T	FACW-	10.		
3. Glyceria striata 95	H	OBL	11.		
4. Onoclea sensibilis 10	H	FACW	12.		
5. Aster umbellatus 5	H	FACW	13.		
6. Carex lacustris 5			14.		
7.			15.		
8			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.): 0

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

Depth to Saturated Soil (in.): 0

Wetland Hydrology Indicators:

Primary Indicators:
- ___ Inundated
- X 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: Saturated to the surface

ID: AR114 A/B-SS-1

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 3/1	—	—	sandy silt loam, high organic
> 6" — rock					

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: Thin organic soil over cobbles, presumably deposited on top of stream meander zone

WETLAND DETERMINATION

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

Remarks: Narrow wetland that occupies the stream meander zone of a small stream.

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

Project Site: Clinton Co. Wind Farm Applicant/Owner: Horizon Investigator: J. Arndt, C. Ryan, J. Farrell	Date: 10 Oct 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: AR114 AB - SS 2

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 60 Shrub: 80 Herb: 30 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
✓ 1. Abies balsamea 15	T	FAC	9.		
✓ 2. Prunus sp. 15	T	FACU	10.		
✓ 3. Populus tremuloides 80	S	FACU	11.		
✓ 4. Fagus grandifolia 10	T		12.		
✓ 5. Betula alleghaniensis 20	T	FAC	13.		
✓ 6. Dryopteris intermedia 10	H	FACU	14.		
✓ 7. Onoclea sensibilis 10	H	FACW	15.		
✓ 8 Corylus cornuta 15+	S	FACU-	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/7 = 43%

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.): >8
- Depth to Saturated Soil (in.): >8

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 evidence of hydrology. Unable to get deeper than 8" because of rock subsurface

ID: AR114ABSS2

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.
0-8	A	10YR 2/1	—	—	silt loam, high organic

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: marginal data of hydric soils - unable to get to deeper horizon

WETLAND DETERMINATION

		(Circle)	(Circle)
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)
		Is this an Isolated Wetland?	Yes No

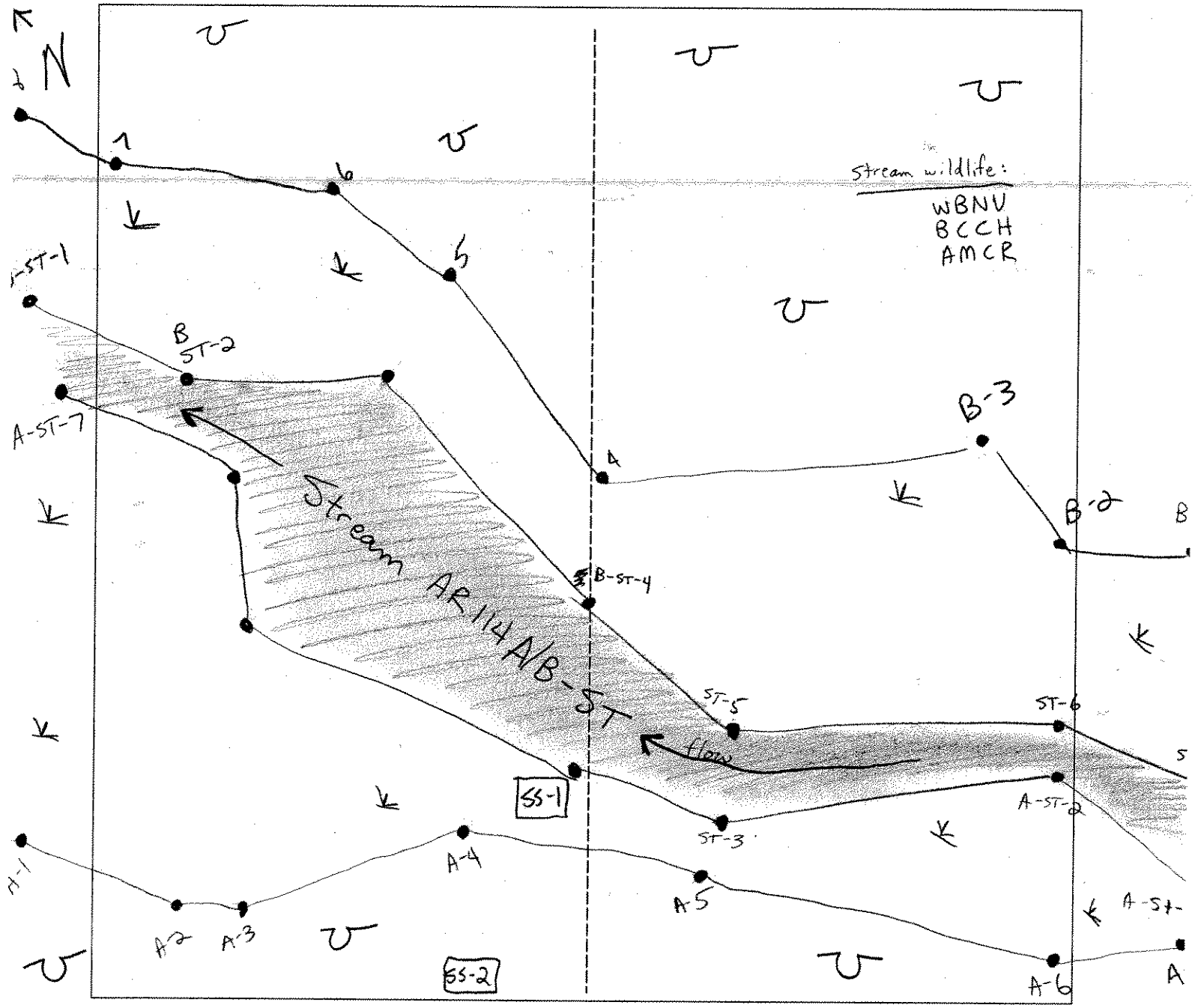
Remarks

$3\overline{)70}\ 23\ 19\ 1$

$7\overline{)30}\ 43\ 28\ 2$

SKETCH FORM

Wetland ID/Route #:	Date:	Time:
AR114 A/B with AR114 A/B-ST	10-10-05	12:30 pm
Intials of Delineators: S.R. J.A.	**Location:** Clinton County Wind Farm	
Roll #: **Frames:**		



Legend

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

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

Project Site: Clinton County Wind Farm Applicant/Owner: Horizon Investigator: J. Arnott, S. Ryan, J. Farrell	Date: 10 Oct. 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: AR115A/B/C SS 1

VEGETATION PSS.

Plant Community Classification:
Percent Canopy Cover: Tree: 25 Shrub: 90 Herb: 60 Vine: 20

	Dominant Plant Species		Stratum	Indicator	Dominant Plant Species		Stratum	Indicator
✓	1. Alnus rugosa	80	S	FACW+	9. Rubus pubescens	20	H	FACW
✓	2. Acer rubra	10	T	FAC	10.			
✓	3. Thuja occidentalis	15	T	FACW	11.			
	4. Rubus oraeus	5	S		12.			
→ ✓	5. Osmunda cinnamomea	20	H	FACW	13.			
✓	6. Aster umbellatus	15	H	FACW	14.			
✓	7. Clematis virginiana	20	V	FAC	15.			
	8 Onoclea sensibilis	5	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
___ No Recorded Data Available

Field Observations:
Depth of Surface Water (in.): 0
Depth to Free Standing Water in Pit (in.): 11
Depth to Saturated Soil (in.): 0

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X 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: Saturated at surface. Ponded water elsewhere in wetland

ID: AR 115 A/B/C SS 1

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	10YR 2/1	—	—	silt, high organic
12+	B	10YR 4/1			silt loam, high organic

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	(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: Extension PSS dominated by Alnus.

SKETCH FORM

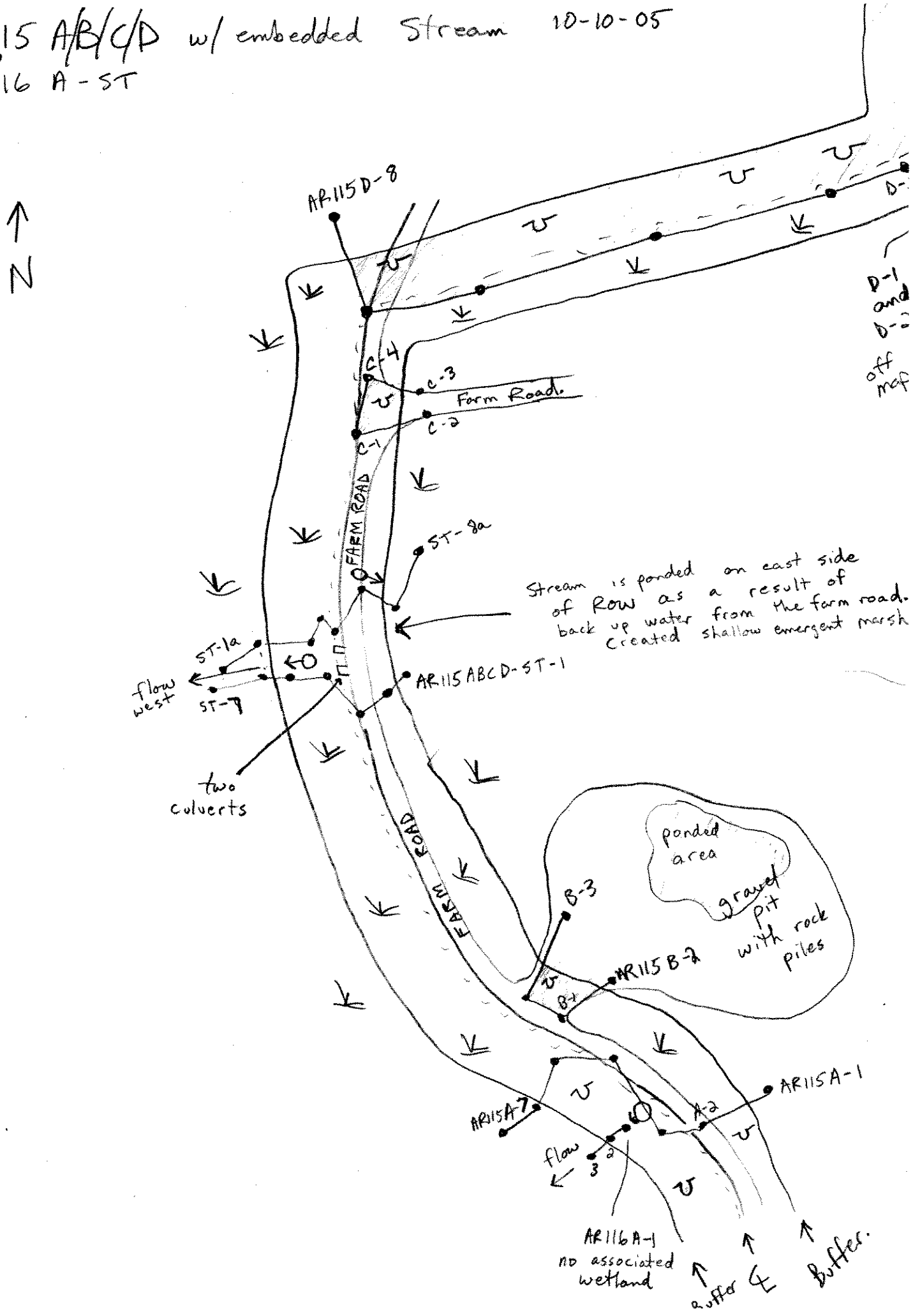
Wetland ID/Route #:	Date:	Time:
AR115A/B/C/D with AR116A-ST, AR115ABCD-ST	10-10-05	
Intials of Delineators: SR JA	**Location:** Clinton County Wind Farm	
Roll #: **Frames:**		

See Back

Legend

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

AR115 A/B/C/D w/ embedded Stream 10-10-05
and
AR116 A-ST



AR115-A/B/C

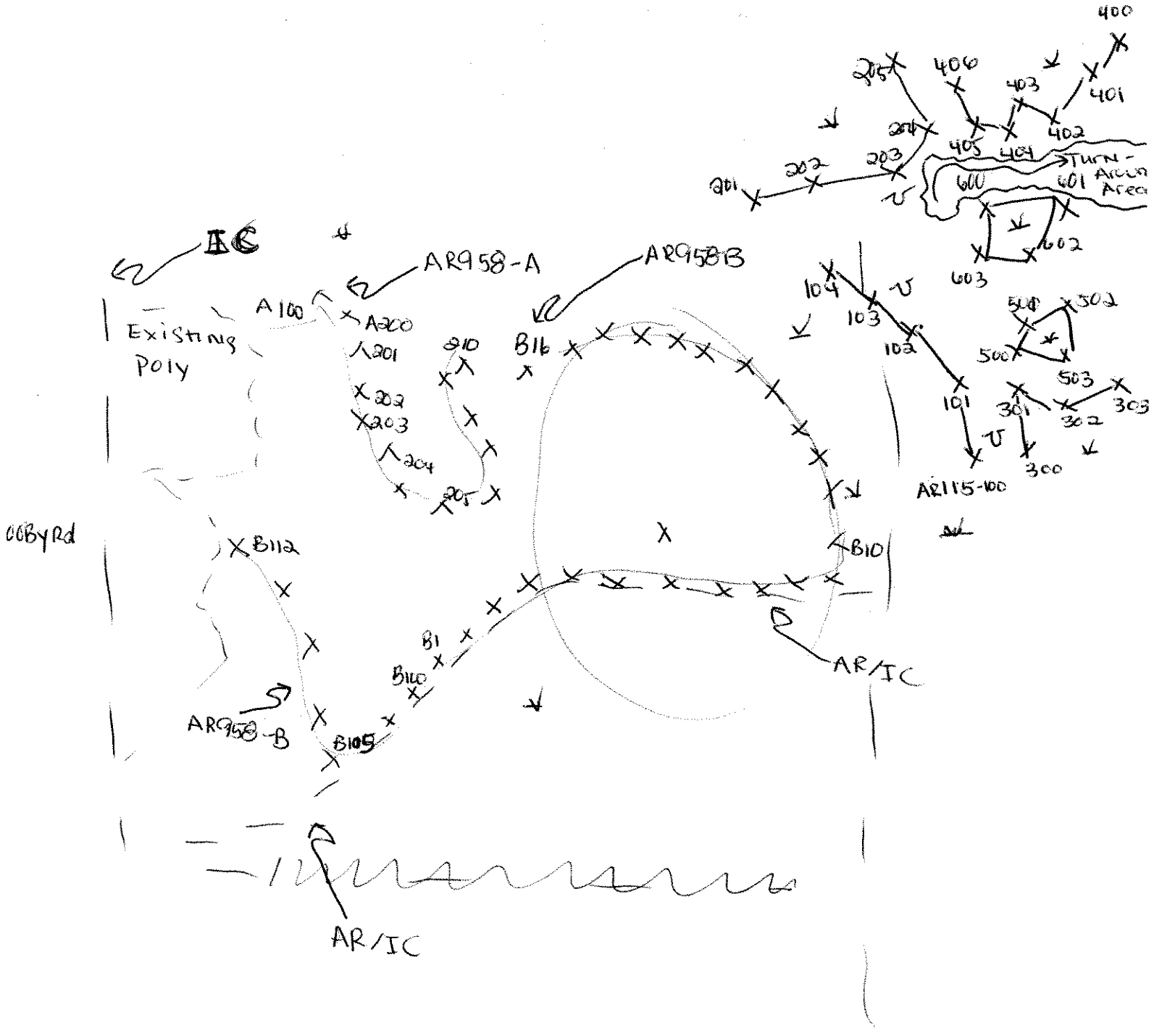
SKETCH FORM

Wetland ID/Route #: AR958-R-A/B+R	**Date:** 10/26/06 **Time:**
Initials of Delineators: RD JV	**Location:** T. 84A
Roll #: **Frames:**	

See Back

Legend

- Photo Location/Direction
- Sample Station
- Centerline
- Flag
- North Arrow
- Wetland
- U Upland
- Perennial Stream
- Intermittent Stream



AR115 A/B/C

100	Series	Open to W
200	Series	Open to W
300	Series	Open to E
400	Series	Open to N
500	Series	Close
600	Series	close

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

LINE EXTENSION

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: JV AP	Date: 5/7/07 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: PF04 Transect ID: Plot ID: AR115 ABC SS1

VEGETATION

Plant Community Classification: Cedar swamp / pasture
Percent Canopy Cover: Tree: 85 Shrub: 80 Herb: 85 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Cedar	T	FACW	9.		
2. Alnus rugosa	T	FACW	10.		
3. Acer rubrum americana	T	FACW-	11.		
4. Populus grandidentata	T	FACU-	12.		
5. Alnus rugosa	S	FACW	13.		
6. Aster sp	H	—	14.		
7. moss sp	H	—	15.		
8			16.		

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

Remarks: Can not Id species because too early in season
Scirpus observed ~25% outside sample station

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.): <1" in depressions
Depth to Free Standing Water in Pit (in.): 18"
Depth to Saturated Soil (in.): 0"

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: Adjacent UPL areas to N and S slope into wetland and discharge groundwater and surface runoff.

Date: 5/7/07
Community ID: P404
Plot ID: AR115 ABC SSL

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.
0-15	A	10YR 2/1			silty clay
15-20	B	2.5Y 5/4	2.5Y 4/3	Distinct/few/med	silt loam

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 DEC WL

Area is used as cow pasture.

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: JV AP	Date: 5/7/07 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 Transect ID: Plot ID: AR115 ABC SS2

VEGETATION

EXTENSION

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

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Burdock	H	UPL	9.		
2. Alsike Clover	H	FAC	10.		
3. Ranunculus	H	FAC	11.		
4. Dandelion	H	UPL	12.		
5. White Clover	H	FACU	13.		
6. Grass Sp.	H	—	14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): <50.1.

Remarks:

HYDROLOGY

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

Field Observations: NA

Depth of Surface Water (in.):

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

Depth to Saturated Soil (in.):

Wetland Hydrology Indicators: NA
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: 5/7/07
Community ID: UR
Plot ID: AR115 ABC 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.
0-15	A	7.5YR 3/2	10YR 5/8	Distinct/few/fine	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: Mottling observed below 12"
earthworm observed at 6".

WETLAND DETERMINATION

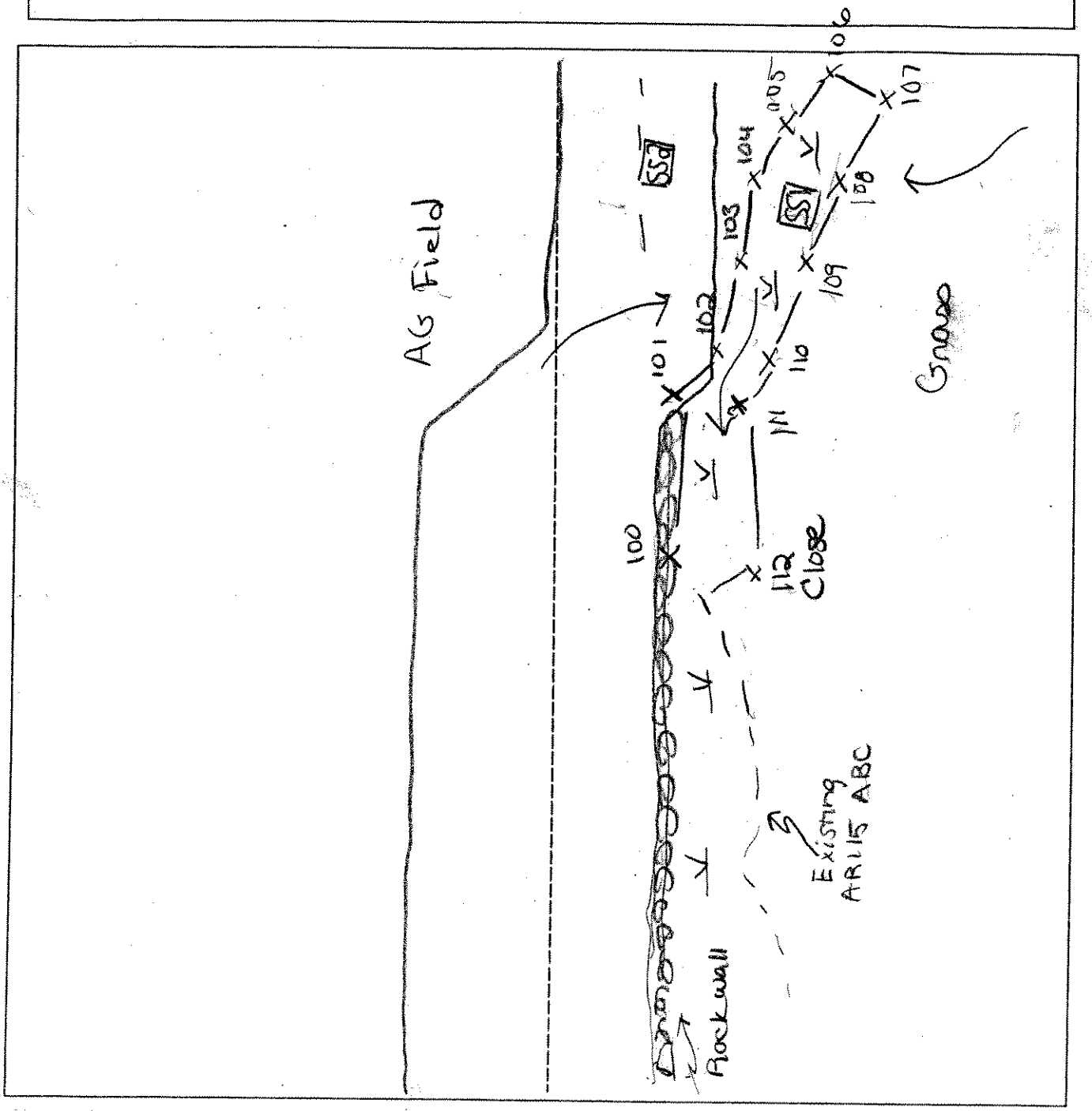
Hydrophytic Vegetation Present? Yes (No)
Wetlands Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

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

Remarks

SKETCH FORM

Wetland ID/Route #:	Date:	Time:
AR115 ABC EXTENSION	5/7/07	
Intials of Delineators: JV AP	**Location:** E OF T. 84A	
Roll #:	**Frames:**	



Legend

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

36 AIT

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

Project Site: Clinton Co. Wind Farm Applicant/Owner: Investigator: J. Arnott, J. Farrell, S. Ryan	Date: 11 Oct 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: AR 117 A SS-1

VEGETATION (PSS) PEM

Plant Community Classification:
Percent Canopy Cover: Tree: 0 Shrub: 90 Herb: 100 Vine: 10

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
✓ 1. Alnus rugosa 90	S	FACW+	9.		
2. Aster umbellatus 5	H	FACW	10.		
3. Solidago rugosa 5	H	FAC	11.		
✓ 4. Onoclea sensibilis 20	H	FACW	12.		
→ ✓ 5. Carex 70	H	FAC+	13.		
✓ 6. Osmunda cinnamomea 20	H	FACW	14.		
✓ 7. Clematis virginiana 10	V	FAC	15.		
8			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.): 0

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

Depth to Saturated Soil (in.): 0

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X 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: Saturated at the surface

ID: AR117A551

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	10YR 2/1	—	—	silty organic muck

Hydro Soil Indicators

- ___ Histosol
- ___ Histic Epipedon
- X Sulfidic Odor
- ___ Aquic Moisture Regime
- ___ Reducing Conditions
- X Gleyed or Low-Chroma Colors
- ___ Concretions
- X 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: Soppy wet dark mud over rock - unable to get deeper than 12"

WETLAND DETERMINATION

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

Remarks

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

Project Site: Clinton Co. Wind Farm Applicant/Owner: Horizon Investigator: J. Arnett, J. Farrell, S. Ryan	Date: 11 Oct 2005 County: Clinton State: NM
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: AR117 A SS 2

VEGETATION Uplands

Plant Community Classification:
Percent Canopy Cover: Tree: 40 Shrub: 90 Herb: 25 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
✓ 1. Ulmus americana 40	T	FACW-	9.		
✓ 2. Rubus allegheniensis 20	S	FACW-	10.		
✓ 3. Corylus cornuta 90	S	FACW-	11.		
✓ 4. Dryopteris intermedia 15	H	FAC	12.		
✓ 5. Corylus cornuta 10	H	FACW-	13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 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.): 0

Depth to Free Standing Water in Pit (in.): > 8

Depth to Saturated Soil (in.): > 8

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 indicators of hydrology

ID: AR117 A SS2

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 2/1	—	—	Silt loam
4-8	B	2.5Y 5/2	—	—	Sandy 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: unable to probe deeper than 8" - cobble

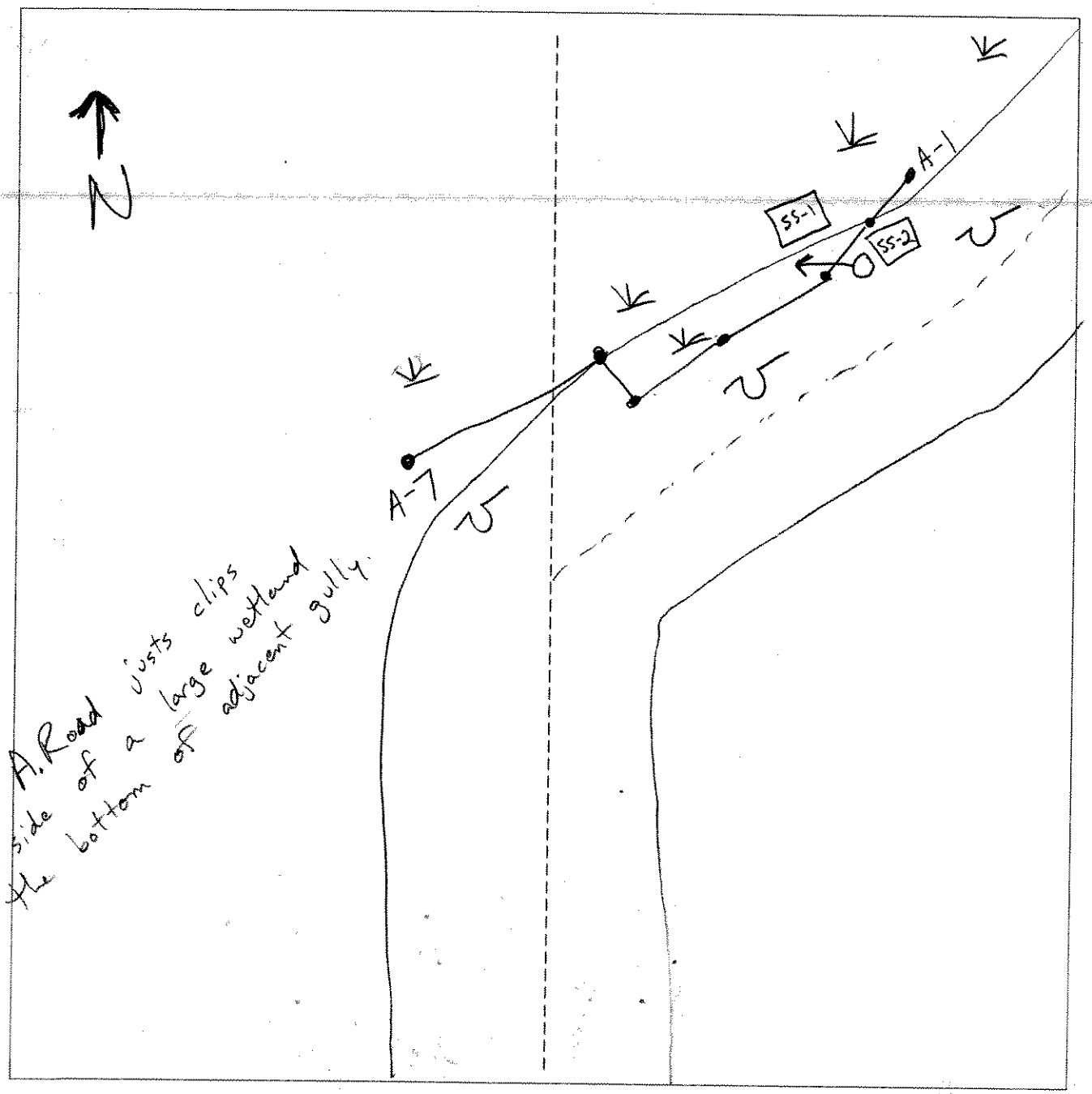
WETLAND DETERMINATION

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: steep slope facing down to PSS wetland

SKETCH FORM

Wetland ID/Route #: AR117A	Date: 10-11-05 Time:
Initials of Delineators: SR JA	Location: Clinton County Wind Farm
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)

LINE EXTENSION

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: JV AP	Date: 5/8/07 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: PEM Transect ID: Plot ID: ARIIB A-551

VEGETATION

Plant Community Classification: Emergent
Percent Canopy Cover: Tree: 0 Shrub: 0 Herb: 95 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Cattails	H	OBL	9.		
2. Impatiens capensis	H	FACW	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: Mature Salix sp. growing on wetland edge.

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.): <1"
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
X 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: Wetland receives runoff / groundwater from Whalen Rd and adjacent UPL areas

Date: 5/8/07
Community ID: PEM
Plot ID: AR110 - A - 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	10 YR 2/2	5Y 4/2	faint/few/fine	Silt loam
10 - 13	B	5Y 3/1			Clay loam

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 Photo 1 = S

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: JV AP	Date: 5/8/07 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 Transect ID: Plot ID: AR 110 A 552

VEGETATION

EXTENSION

Plant Community Classification: Un mountained grass
Percent Canopy Cover: Tree: 0 Shrub: <5 Herb: 100 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Spirea latifolia	S	FAC	9.		
2. Salix discolor	S	FACW	10.		
3. Crataegus sp	S	FACU	11.		
4. Taraxacum officinale	FF	FACU	12.		
5. Burweed	H	UPL	13.		
6. Ranunculus	H	FAC	14.		
7. Hawkweed	H		15.		
8			16.		

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

Remarks:

HYDROLOGY

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

X No Recorded Data Available

Field Observations: NA

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):
- X Oxidized Root Channels in Upper 12 inches
- ___ Water-Stained Leaves
- ___ Local Soil survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks: UPL areas are level then slope into WL to east. Water does not collect on this area but drains into WL.

Date: 5/8/07
Community ID: UPL
Plot ID: AR118 A 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.
0-12	A	10YR 2/2	10YR 5/6	Distinct, few, fine	Silty clay loam

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

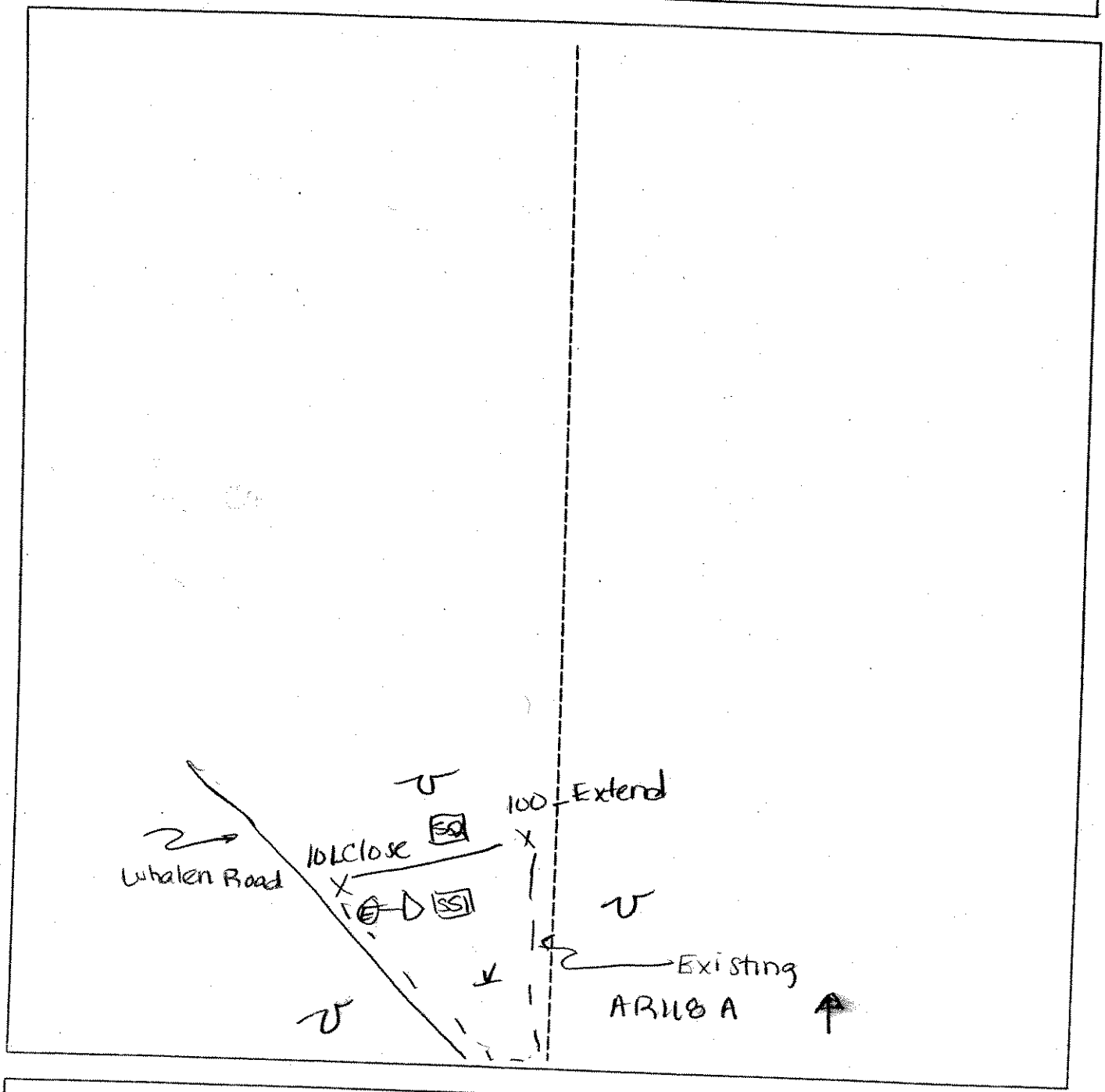
Hydrophytic Vegetation Present? Yes (No)
Wetlands Hydrology Present? Yes (No)
Hydric Soils Present? (Yes) No

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

Remarks

SKETCH FORM

Wetland ID/Route #: AR118 A EXTENSION	**Date:** 5/8/07 **Time:**
Intials of Delineators: JV AP	**Location:** AR to T.36A
Roll #: **Frames:** 1 = S	



Legend

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

36A1T

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

Project Site: Clinton Co. Wind Farm Applicant/Owner: Horizon Investigator: J. Arnold, J. Farrell, S. Ryan	Date: 11 Oct 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: AR118AB SS1

VEGETATION PEM

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

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Typha latifolia 100	H	OBL	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-): 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.): to 6"

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

Depth to Saturated Soil (in.): 0

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X 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: AR118 A/B ssl

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	10YR 2/1	—	—	organic, muck
12 +	B	10YR 5/2	10YR 5/8	Few distinct large	Sandy loam

Hydro Soil Indicators

X Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
___ Reducing Conditions
___ Gleyed or Low-Chroma Colors

___ Concrétions
___ 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: 100% obligate species, inundated, presume hydric soil

WETLAND DETERMINATION

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

Remarks

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

Project Site: Clinton Co. Wind Farm Applicant/Owner: Horizon Investigator: J. Arnett, J. Farrell, St Ryan	Date: 11 Oct 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: AR118 A/D SS-2

VEGETATION UPland Shrub.

Plant Community Classification:
Percent Canopy Cover: Tree: 0 Shrub: 30 Herb: 75 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
✓ 1. Prunus serotina 20	S	FACU	9.		
✓ 2. Rubus idaeus 10	S	FACU-	10.		
3. Rubus occidentalis 5	S	FACU	11.		
✓ 4. Solidago rugosa 75	H	FAC	12.		
5.			13.		
6.			14.		
7.			15.		
8			16.		

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

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 evidence of hydrology

ID: AR117 AB 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 - 2	A	10YR 3/2	—	—	Sandy Loam
2 - 12	D	10YR 3/2	—		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:

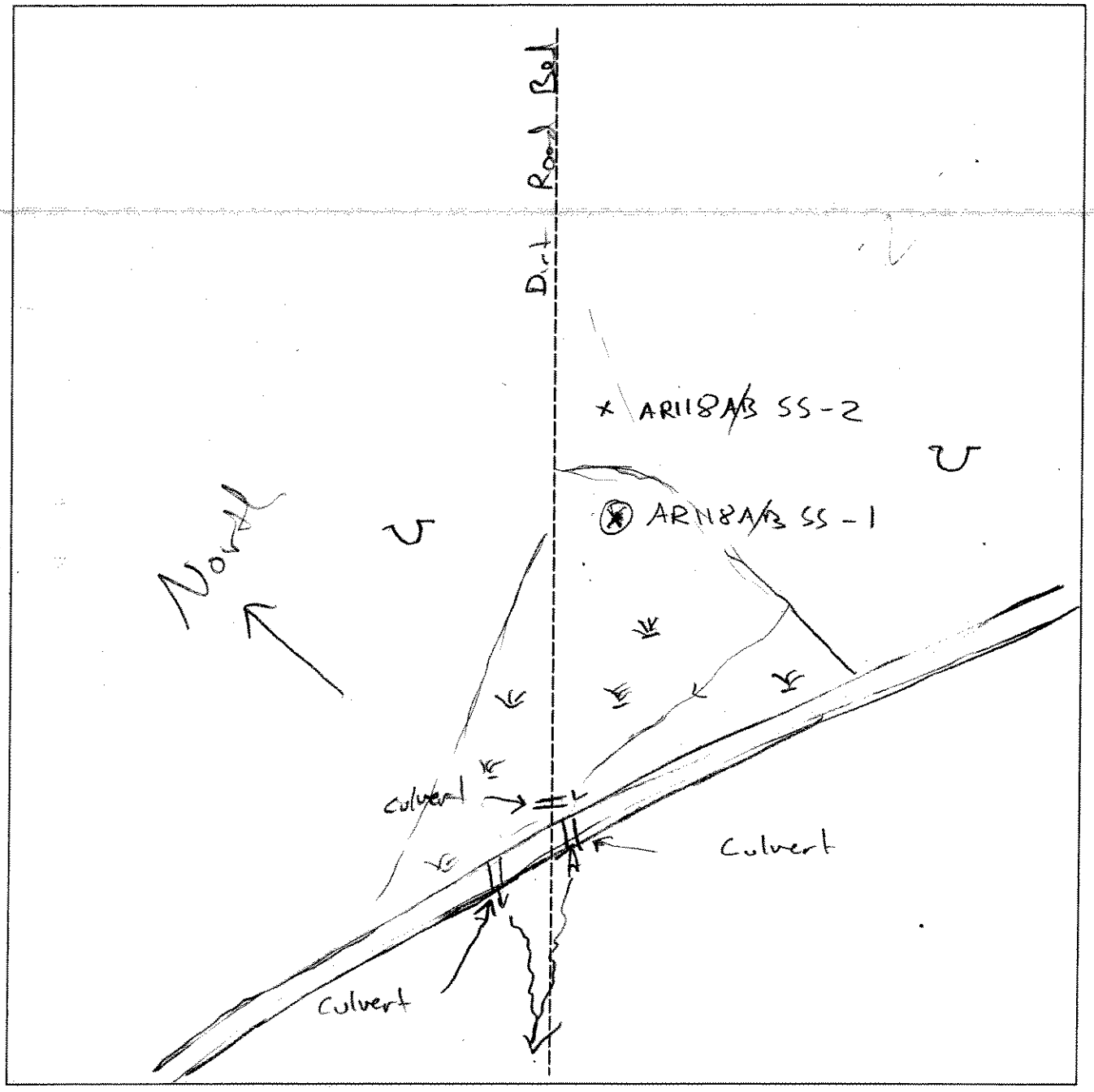
WETLAND DETERMINATION

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 #:	Date:	Time:
AR118AB	11Oct2005	1:00
Intials of Delineators:	**Location:**	
JA, JF, SR	Clinton County Wind Farm	
Roll #:	**Frames:**	
Photo 1 to NE		



Legend

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

AR120Y-WL

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

Project Site: Clinton Co. Windsor Applicant/Owner: Horizon Investigator: KH, AK, JG	Date: 10/21/05 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: WETLAND Transect ID: Plot ID: AR120Y-SS1

VEGETATION

Plant Community Classification: PEM/PSS

Percent Canopy Cover: Tree: 10 Shrub: 50 Herb: 60 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer Rubrum	T	FAC	9.		
2. Gray Birch	T	FAC	10.		
3. Acer Rubrum	S	FAC	11.		
4. Gray Birch	S	FAC	12.		
5. Sphagnum	H	-	13.		
6. Moss sp	H	-	14.		
7. lady fern	H	FAC	15.		
8			16.		

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

Remarks: photo roll 5 pix # 20 100/ss East

- Juncus Effusus in other areas of wetland

wetland hydrologically connected to AR120A, which is extended by AR120X flag line

HYDROLOGY

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

Field Observations:

Depth of Surface Water (in.): UP TO 2' IN PLACES

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

Depth to Saturated Soil (in.): 0"

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

Remarks: STANDING WATER IN MIDDLE WETLANDS

AR120Y - WL

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	O	7.5YR-2.5/2	NONE	—	Humucky Peat
4-6	A	10YR-2/1	NONE	—	Sandy Silt
6-8	A_1	7.5YR 3/1	NONE	—	SANDY Clay Loam

Hydro Soil Indicators

- ___ Histosol
- ___ Histic Epipedon
- X 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: refusal at 8 inches

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 - PREVIOUSLY LOGGED AREA
- SOILS LIKELY HAVE BEEN DISTURBED

AR-120Y-UPL

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

Project Site: CLINTON COUNTY LANDFARM Applicant/Owner: HORIZON Investigator: AK, KH, JG	Date: 10/21/05 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: UPLAND Transect ID: ARIZOY Plot ID: 552

VEGETATION NHD SUCCESSIONAL

Plant Community Classification:
Percent Canopy Cover: Tree: 40% Shrub: 20% Herb: 25% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. RED MAPLE	T/S	FAC	9.		
2. GREY BIRCH	T/S	FAC	10.		
3. PAPER BIRCH	T	FACU	11.		
4. AMERICAN BEACH	S	FACU	12.		
5. CLUB BUSH BLUEBERRY	S	FACU-	13.		
6. BRACKEN FERN	H	FACU	14.		
7. UKI	H		15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 57% 88%

Remarks: UKI - 4 LEAVE LOW HERB

recent logging / disturbed soils

roll 5 # pic # 20
looks East

HYDROLOGY

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

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

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:

AR1201-UPL

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	O	10YR 2/1	NONE	—	OM w/ 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: REFUSAL @ 6"

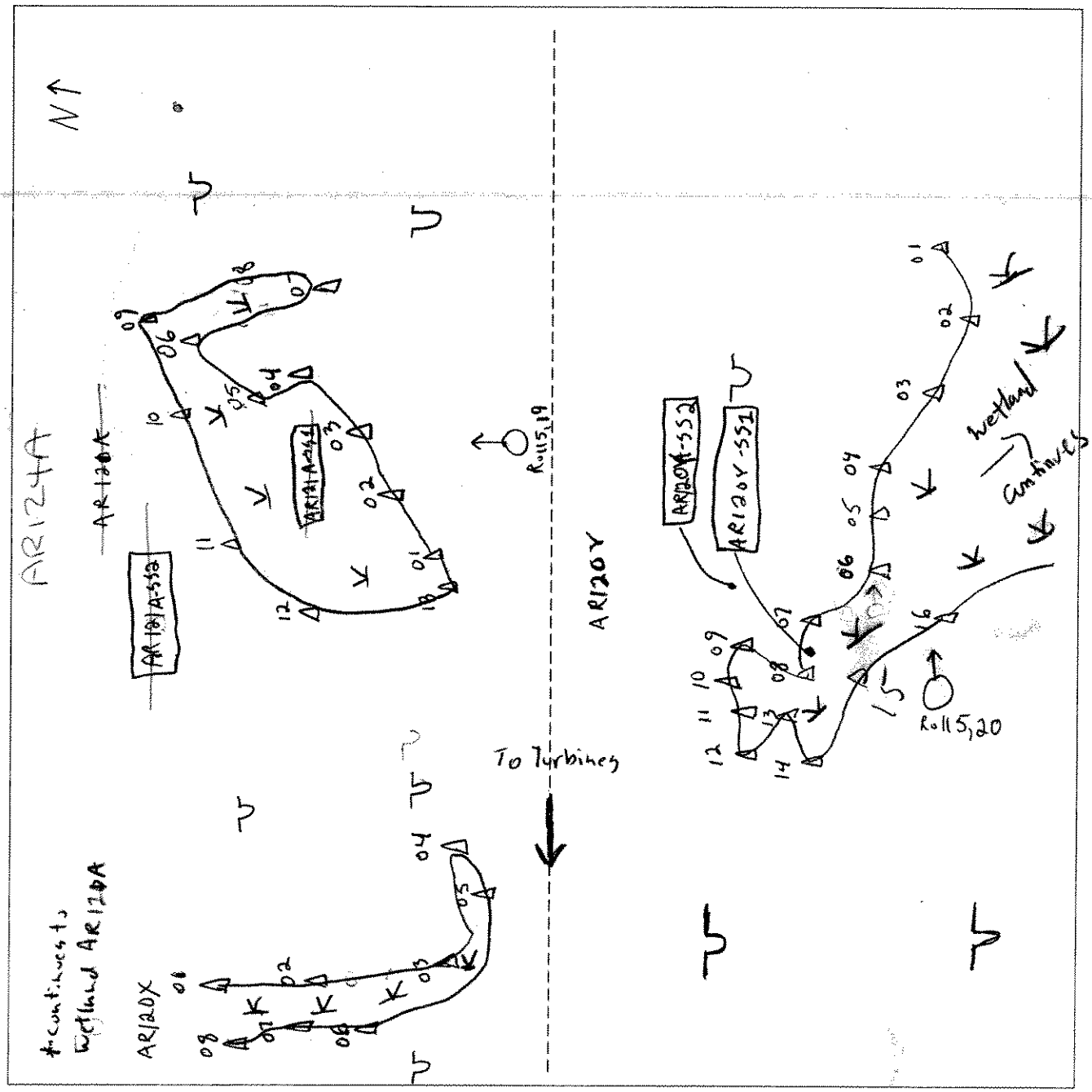
WETLAND DETERMINATION

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

SKETCH FORM

Wetland ID/Route #:	Date:	Time:
AR120Y / AR120X / AR121A	10/21/05	1030
Intials of Delineators:	**Location:**	
J.G. K.H E.K	Clinton County	
Roll #:	**Frames:**	
5	20, 19	



Legend

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

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

Project Site: Clinton Co. Windfarm Applicant/Owner: Horizon Investigator: KH, AH, JG	Date: 10/21/05 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: PEM Transect ID: Plot ID: AR124A-SS1

VEGETATION

Plant Community Classification: PEM
Percent Canopy Cover: Tree: 10 Shrub: 20 Herb: 100 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Gray Birch	T/S	FAC	9.		
2. Beaked willow	S	FACW	10.		
3. Steeple Bush	H	FACW	11.		
4. Tall leaf Goldenrod	H	FAC	12.		
5. Moss sp.	H		13.		
6.			14.		
7.			15.		
8			16.		

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

Remarks: Atypical wetland pit # 10115 - 19 looks N of SS1/SS2

HYDROLOGY

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

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

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X 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:

AR121A-WL

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	O	10YR-2/1			Organic Material
1-6	A	10YR-5/4	10YR-3/4	Few/coarse/faint	Sandy Clay

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
X 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:
- Soils highly disturbed due to excavation of area
- looks like retention pond created by machines

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, Winstream Applicant/Owner: Horizon Investigator: KH, JB, AH	Date: 10/21/05 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: AR124A SS2

VEGETATION

Plant Community Classification: upland successional

Percent Canopy Cover: Tree: Shrub: Herb: Vine:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer Rubrum	T/S	FAC	9.		
2. Gray Birch	S	FAC	10.		
3. American Beech	S	FACU	11.		
4. Bracken Fern	H	FACU	12.		
5. High Bush Blueberry	S		13.		
6. Moss Sp	H	–	14.		
7. Low Bush blueberry	H	FACU-	15.		
8 Whorled Aster	H		16.		

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

Remarks: Previously logged area, successional forests disturbed soils

HYDROLOGY

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

Field Observations:

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

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

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

AR121A-LPL

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	O	10YR-2/1			silty organic Material

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 @ 6 inches

WETLAND DETERMINATION

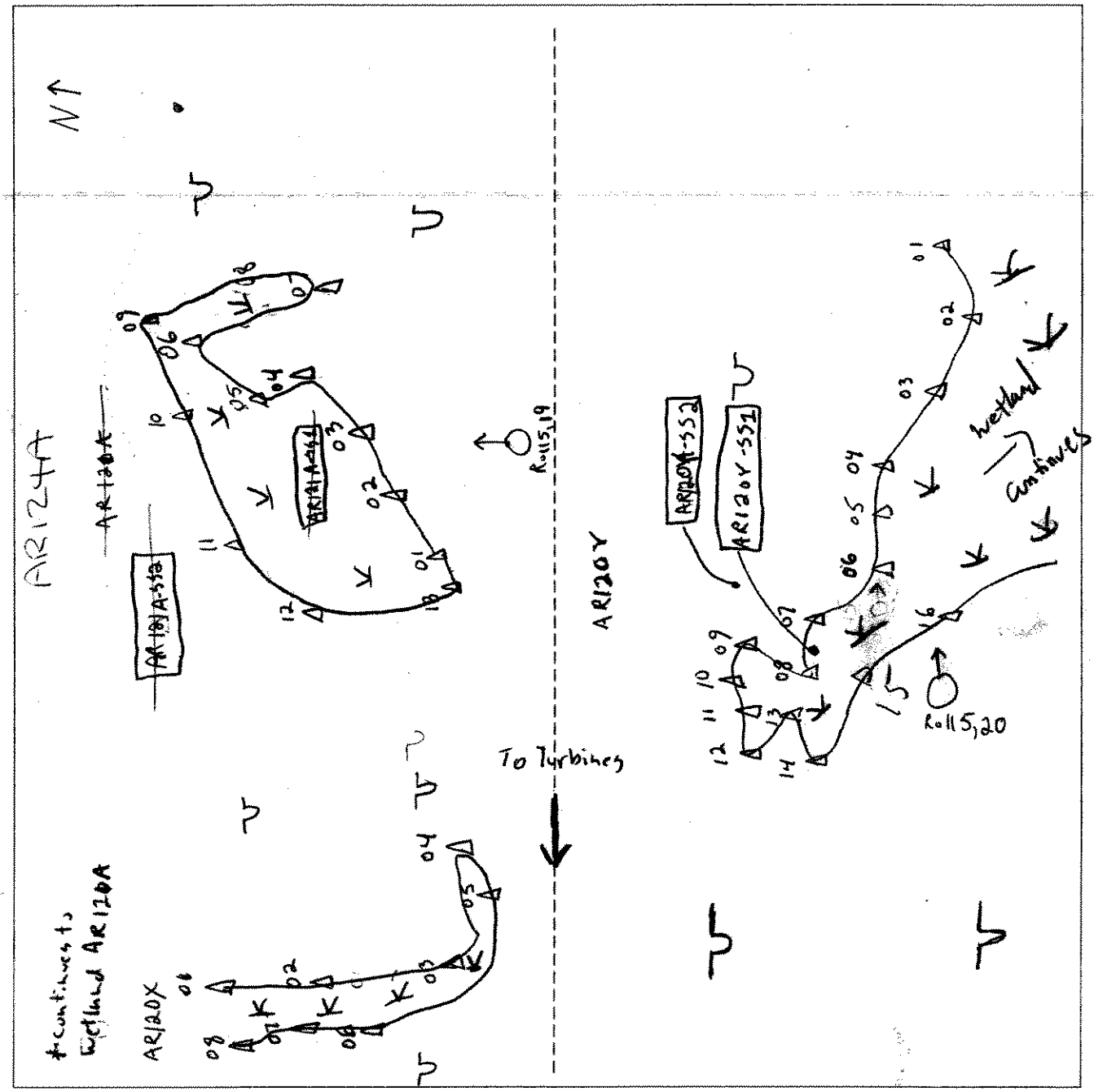
Hydrophytic Vegetation Present? Yes (No) (Circle)
Wetlands Hydrology Present? Yes No
Hydric Soils Present? Yes (No)

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

Remarks

SKETCH FORM

Wetland ID/Route #:	Date:	Time:
AR120Y /AR120X/AR121A	10/21/05	1030
Intials of Delineators:	**Location:**	
J.G. K.H E.K	Clinton County	
Roll #:	**Frames:**	
5	20,19	



Legend

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

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

Project Site: Clinton Co. Windfarm Applicant/Owner: Horizon Investigator: ISH, JG, AH	Date: 10/21/05 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 AR125A' - 551

VEGETATION

Plant Community Classification: PFM, PSS
Percent Canopy Cover: Tree: 10 Shrub: 10 Herb: 80 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Gray Birch	T/S	FAC	9.		
2. Red Auburn	S	FAC	10.		
3. Meadow Sweet	H	FAC+	11.		
4. Hairy Goldenrod	H	FAC	12.		
5. Sphagnum	H	–	13.		
6. Juncus Effusus	H	FACW+	14.		
7.			15.		
8			16.		

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

Remarks: – Open water w/ little vegetation present in the water
– roll 5, pix #17 looks South

HYDROLOGY

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

Field Observations:
Depth of Surface Water (in.): 4-5
Depth to Free Standing Water in Pit (in.): 0
Depth to Saturated Soil (in.): 0

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X 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:

AR122A-WL

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.
0-2	O	7.5YR-2.5/2			clay w/ organic material
2-5	A	10YR-2/2	7.5YR-3/4	Few/Coarse/faint	clay loam
5-6	A_1	10YR-2/1			silty sand

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ Aquic Moisture Regime
X 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 @ Auger at 6 in
- disturbed soils - wetland in man made ditch

WETLAND DETERMINATION

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

Remarks

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

Project Site: Clinton Co. Wmisroom Applicant/Owner: Horizon Investigator: KH, AH, SG	Date: 10/21/05 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: AR125A-SS2

VEGETATION

Plant Community Classification: Upland successional

Percent Canopy Cover: Tree: 80 Shrub: 25 Herb: 15 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Gray Birch	T/S	FAC	9.		
2. Acer Rubrum	T/S	FAC	10.		
3. Big Tooth Aspen	T	FACU-	11.		
4. Low Bush Honeysuckle	H	FACU-	12.		
5. Bracken fern	H	FACU	13.		
6.			14.		
7.			15.		
8			16.		

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

Remarks: pit # 18, roll 5 100ASA W

HYDROLOGY

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

Field Observations:

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

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

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

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:

AR-122A-UPL

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	O	10YR-2/1			Organic material
1-3	A	10YR-5/2			Sandy silt
3-6	A_1	10YR-5/2	7.5YR-5/8	Many/coarse/distinct	Sandy silt

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: - refusal of Auger at 6 inches
- disturbed soils due to logging

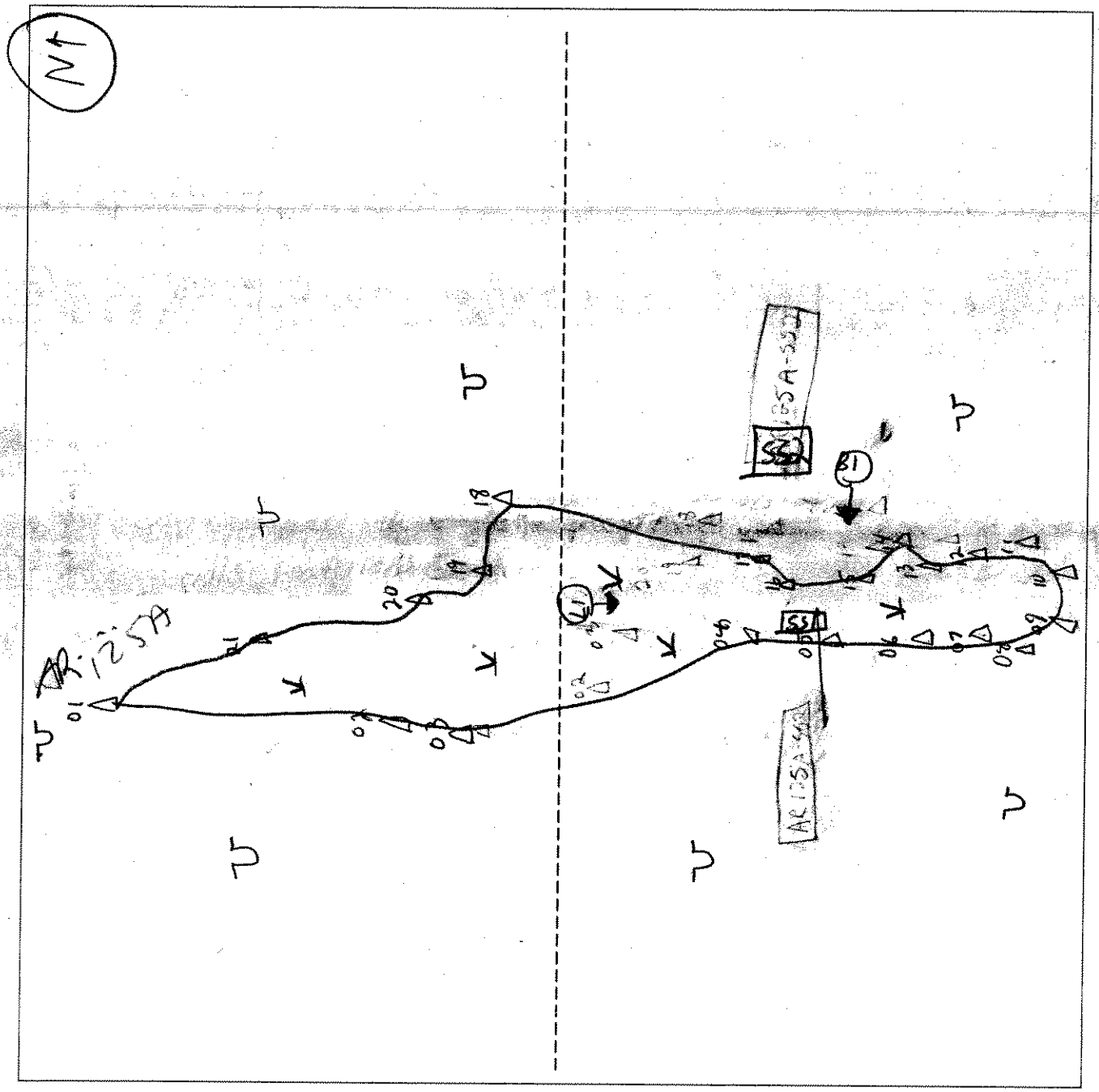
WETLAND DETERMINATION

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

SKETCH FORM

Wetland ID/Route #: AR125A	Date: 10/21/05	Time: 1130
Intials of Delineators: K.H., JG, AK	Location: Clinton County	
Roll #: 5	Frames: 18, 17	



Legend

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

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

Project Site: Clinton County / ~~Ellenburg~~ Wmsburg Applicant/Owner: Horizon Renewable Energy Investigator: DEN, AK	Date: 10/17/05 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: WETLAND Transect ID: AR200 A Plot ID: SS1

VEGETATION DEN

Plant Community Classification:

Percent Canopy Cover: Tree: Ø Shrub: 5% Herb: 90% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Juncus effusus	H	FACW+	9.		
2. Canada Rush	H	OBL	10.		
3. Wool Grass	H	FACW+	11.		
4. Manna Grass	H	OBL	12.		
5. Carex lurida	H	OBL	13.		
6. Speckled Alder	S	FACW+	14.		
7. Steeple Bush	S/H	FACW	15.		
8 Lance-leaved Goldenrod	H	FAC	16.		

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

Remarks:

Riparian shrub

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: X Inundated X 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.): 6" in places Depth to Free Standing Water in Pit (in.): Ø Depth to Saturated Soil (in.): Ø	

Remarks:

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 3/2	—	—	Clay loam
4-5	B	10YR 5/2	—	—	Silt loam

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: REFUSAL OF AUGER @ 5"

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 ACOE Wetlands Delineation Manual)

Project Site: Clinton County Windfarm Applicant/Owner: Horizon Investigator: RTD, AK	Date: 10/17/05 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: upland Transect ID: AR200A Plot ID: 552

VEGETATION MID SUCCESSION

Plant Community Classification:
Percent Canopy Cover: Tree: Ø Shrub: 30% Herb: 95% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. BRAMBLES	S	unknown	9.		
2. Field Sorrel	H	UPL	10.		
3. Gray Birch	S	FAC	11.		
4. Arrow leaf Tearthumb	H	FACW	12.		
5. Sugar maple	S	FACU-	13.		
6. R.S. Golden Rod	H	FAC	14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 50%

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:
Community ID:
Plot 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.
0-8	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 OF AUGER @ 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)

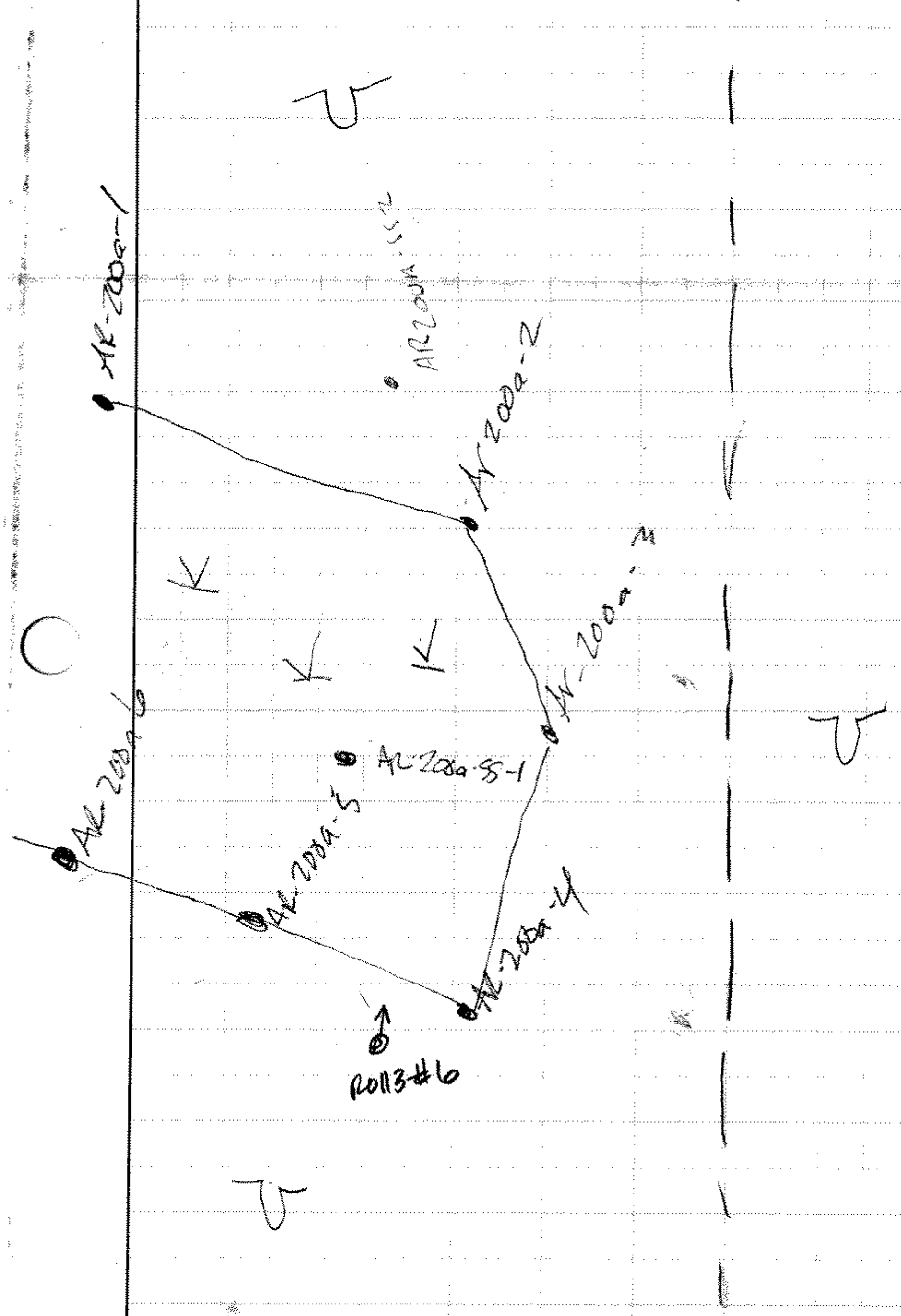
Remarks

Clinton Co Wind Farm

TETRA TECH

SUBJECT: AR200A 10-17-05	PROJECT: Horizon Clinton Co.	
ORIGINATOR: JK	CHECKED:	TC/P NO.:
		DATE: 10/17/05 PAGE: ___ OF: 1 PAGES

AR-200a · N of Soucia Rd



N

V = wetland - - - center line
Ʋ = upland
• GPS point

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

LOW QUALITY

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: RJD SC LP	Date: 6/1/2007 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: AR200A Plot ID: 303

VEGETATION

Plant Community Classification: PEM DISTURBED SKIDDER TRAIL
Percent Canopy Cover: Tree: 0 Shrub: 5 Herb: 60 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. CANADA RUSH (J. CANADENSIS)	H	OBL	9.		
2. SPIKE RUSH	H	FACW	10.		
3. GRASS SP	H		11.		
4. JUNCUS EFFUSES	H	FACW+	12.		
5. CAREX SP.	H		13.		
6. SPECKLED ALDER	S	FACW+	14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 4/6 = 67%

Remarks: DISTURBED / TIRE RUTS - SKIDDER TRAIL

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.): 2" IN PLACES

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

Depth to Saturated Soil (in.): 0

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: 6/1/2009
Community ID: WETLAND
Plot ID: AR200A-SS3

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	10YR 5/1	10YR 4/6	COMMON/MED/DISTINCT	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: REFUSAL OF AUGER @ 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: RJD SC LP	Date: 6/11/2007 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: OPLAND Transect ID: AR2000A Plot ID: SS4

VEGETATION

Plant Community Classification: DISTURBED EARLY SUCCESSIONAL
Percent Canopy Cover: Tree: Shrub: 20 Herb: 45 Vine:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. GRASS SP	H		9.		
2. STRAWBERRY	H	UPL	10.		
3. SOW THISTLE	H	UPL	11.		
4. SPIRAEA LATIFOLIA	S	FACW+	12.		
5.			13.		
6.			14.		
7.			15.		
8			16.		

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

Remarks:

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

Remarks:

Date:
Community ID:
Plot 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			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 OF AUGER AT 6"

WETLAND DETERMINATION

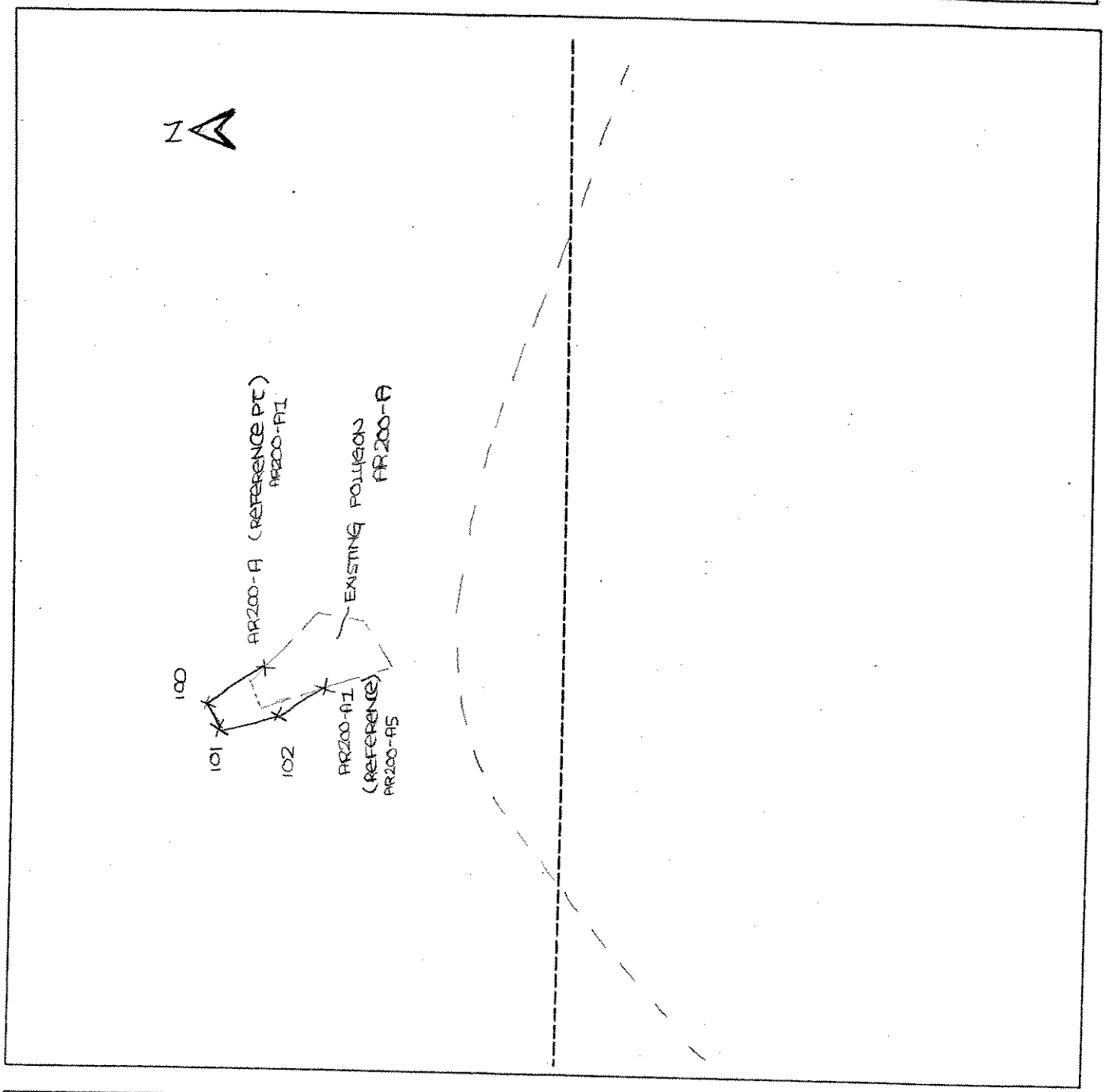
Hydrophytic Vegetation Present? Yes (No)
Wetlands Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

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

Remarks

SKETCH FORM

Wetland ID/Route #: AR200-A EXTENSION	**Date:** 5/25/07 **Time:**
Intials of Delineators: RJD	**Location:**
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: Clinton County Wind Farm Applicant/Owner: Horizon Investigator: RJD - AK	Date: 10/17/05 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: WETLAND Transect ID: AR204 Plot ID: SS1

VEGETATION

Plant Community Classification: PSS
Percent Canopy Cover: Tree: Ø Shrub: 80% Herb: 60% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. SPECKLED ALDER	S	FACW+	9. SPAG moss	H	—
2. GRAY birch	S	FAC	10. RED maple	S	FAC
3. RASPBERRY BRIAR	H	OBL	11.		
4. REED CANARY GRASS	H	FACW+	12.		
5. JUNCUS EFFUSUS	H	FACW+	13.		
6. STEEPLE BUSH	S	FACW	14.		
7. CAREX CRINITA	H	OBL	15.		
8 LANCE LEAF GIR.	H	FAC	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 100 90

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.): 8" in pools

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:
Community ID:
Plot 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.
0-5	A1	7.5YR 3/2	—	—	Clay loam w/ sand
5-6	A2	10YR 5/2	—	—	Clay

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ 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:
Refusal of Auger at 6"

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 COE Wetlands Delineation Manual)

Project Site: Clinton County ~~Ellenburg~~ Wimsford Applicant/Owner: Horizon Renewable Energy Investigator: RTJ, AK	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: UPLAND Transect ID: AR201 Plot ID: SS2

VEGETATION MID Successional

Plant Community Classification:

Percent Canopy Cover: Tree: 0 Shrub: 80% Herb: 10% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Blk Cherry	S	FACU	9.		
2. Gray Birch	S	FAC	10.		
3. Meadow sweet	S	FAC+	11.		
4. Brambles	S	unknown	12.		
5. R.S. Gall Red	H	FAC	13.		
6. Sugar maple	S	FACU-	14.		
7. Club moss	H	FAC	15.		
8 Wood Fern	H	FAC+	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 50%

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
- X 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:

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	10YR 2/1	-	-	ORGANIC
3-5	A	10YR 4/1	-	-	

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:

Refusal of Auger at 5"

MARGINAL Hydric Soil - low chroma

Saturated due to heavy rains

WETLAND DETERMINATION

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

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

Remarks

TETRA TECH

SUBJECT: Clinton County [illegible] Horizon

PROJECT:

TC/P NO.:

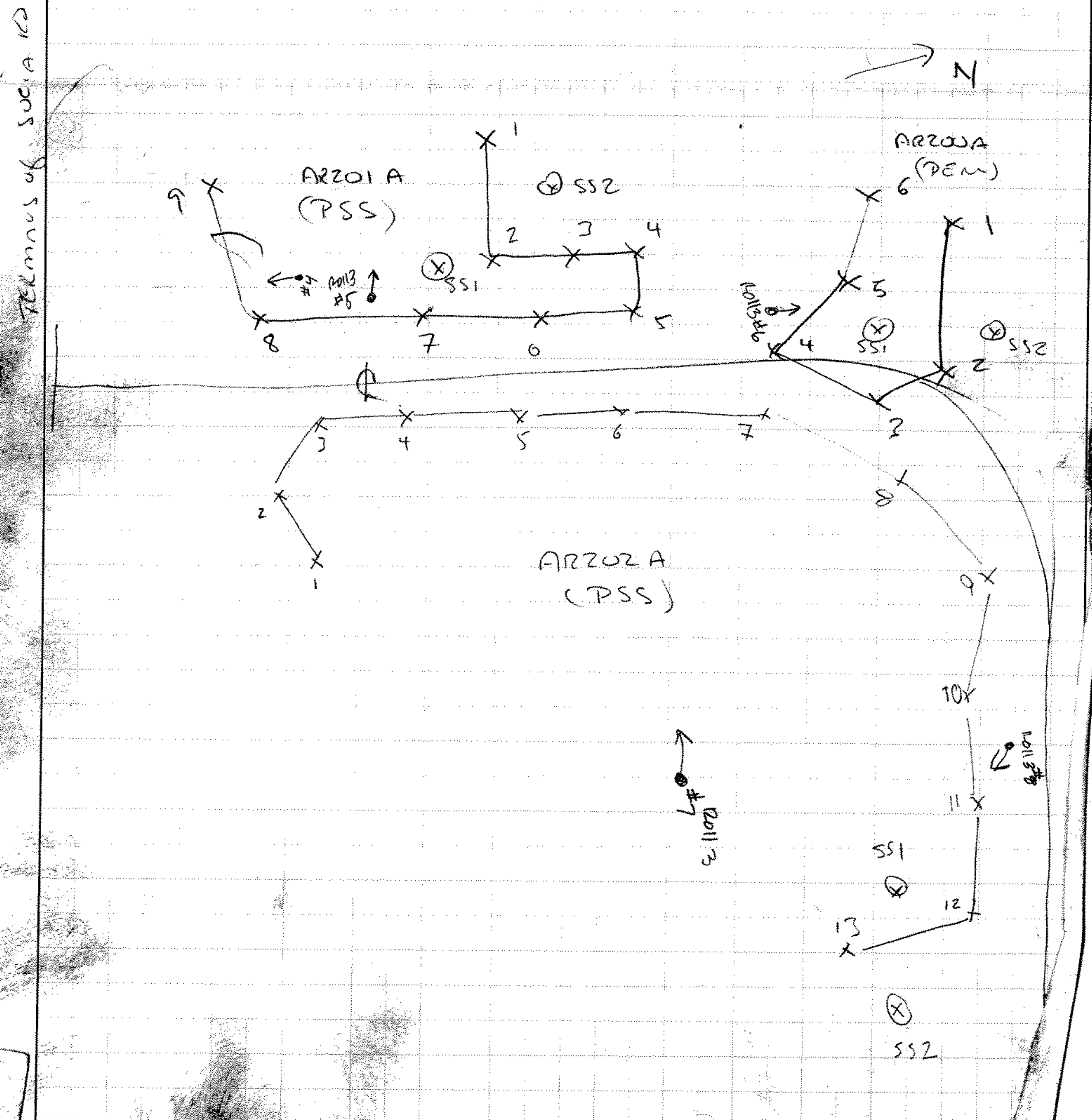
ORIGINATOR: CHECKED:

DATE: 10/17/05 PAGE: OF: PAGES

WETLANDS SKETCH

AR200A
AR201A
AR202A

PHOTOS = Roll #3, FRAMES 4,5,6,7,8



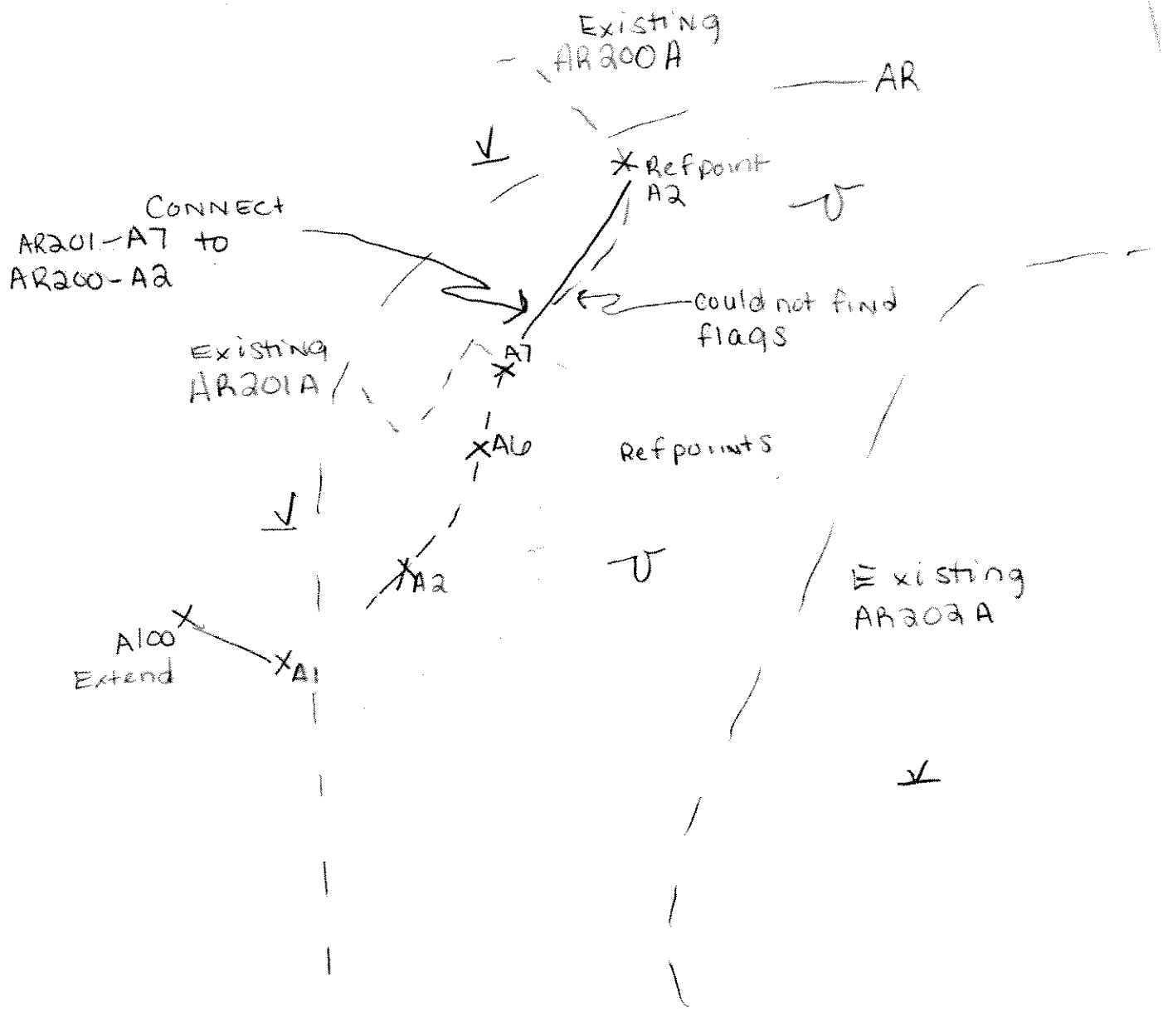
SKETCH FORM

Wetland ID/Route #: AR200A AR201A	Date: 9/13/06 Time:
Intials of Delineators: JV DR	Location: Soucia Rd ON degtree
Roll #: Frames:	

See Reverse

Legend

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



- Could not find Flag AR200-A1 to use as Ref. point.

- CONNECT AR201 to AR200

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: RVD	Date: 5/25/07 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: TR 201 A Plot ID: 553

VEGETATION PSS / PEM

Plant Community Classification:
Percent Canopy Cover: Tree: 25% Shrub: 85% Herb: 80% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Speckled Alder	S	FACW+	9. Spike Rush	H	FACW
2. Red maple	T/S	FAC	10.		
3. Panicled bent	S	FAC	11.		
4. Reed canary	H	FACW+	12.		
5. Carex SSP	H		13.		
6. Jewelweed	H	FAC	14.		
7. Jewelweed	H	FACW	15.		
8. Cattail	H	FACW+	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 9/10 = 90%

Remarks: Sphag in both parts of wetland

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: X 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)
Field Observations: Depth of Surface Water (in.): 10" in places. Depth to Free Standing Water in Pit (in.): Ø " Depth to Saturated Soil (in.): Ø "	

Remarks:

Frogs

Date: 5/25/07
Community ID: WETLAND
Plot ID: AR201A-553

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.
0-10	A	10YR5/1	—	—	Silty Clay

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: Disturbed soil at edge of Skidder trail
Redoximorphic at 10"

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 bisected by Skidder trail

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: KN	Date: 5/25/07 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: AR201A SS4

VEGETATION

Plant Community Classification: Conifer forest

Percent Canopy Cover: Tree: 85% Shrub: 30% Herb: 40% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Blk Spruce	T	FACU-	9. Club moss	H	
2. Red maple	S/H	FAC	10. Whorled Wood Aster	H	UPL
3. Bunchberry	H	FAC-	11. Bracken fern	H	FACU
4. CANADA MAYFLOWER	H	FAC-	12.		
5. Tree-like clubmoss	H	FACU	13.		
6. Golden Thread	H	FACW	14.		
7. L. B. Blueberry	S	FACU-	15.		
8. PAINTED TRILLIUM	H	FACU	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 2/12 = 8%

Remarks: [illegible]

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: 5/25/07
Community ID:
Plot 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.
0-3	O	10YR 2/1	—	—	O
3-15	A	7.5YR 3/3	10YR 5/4	FEW/FAINT/MED	Silty Clay
15-18	B	10YR 4/3	—	—	Silty 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)
Wetlands Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

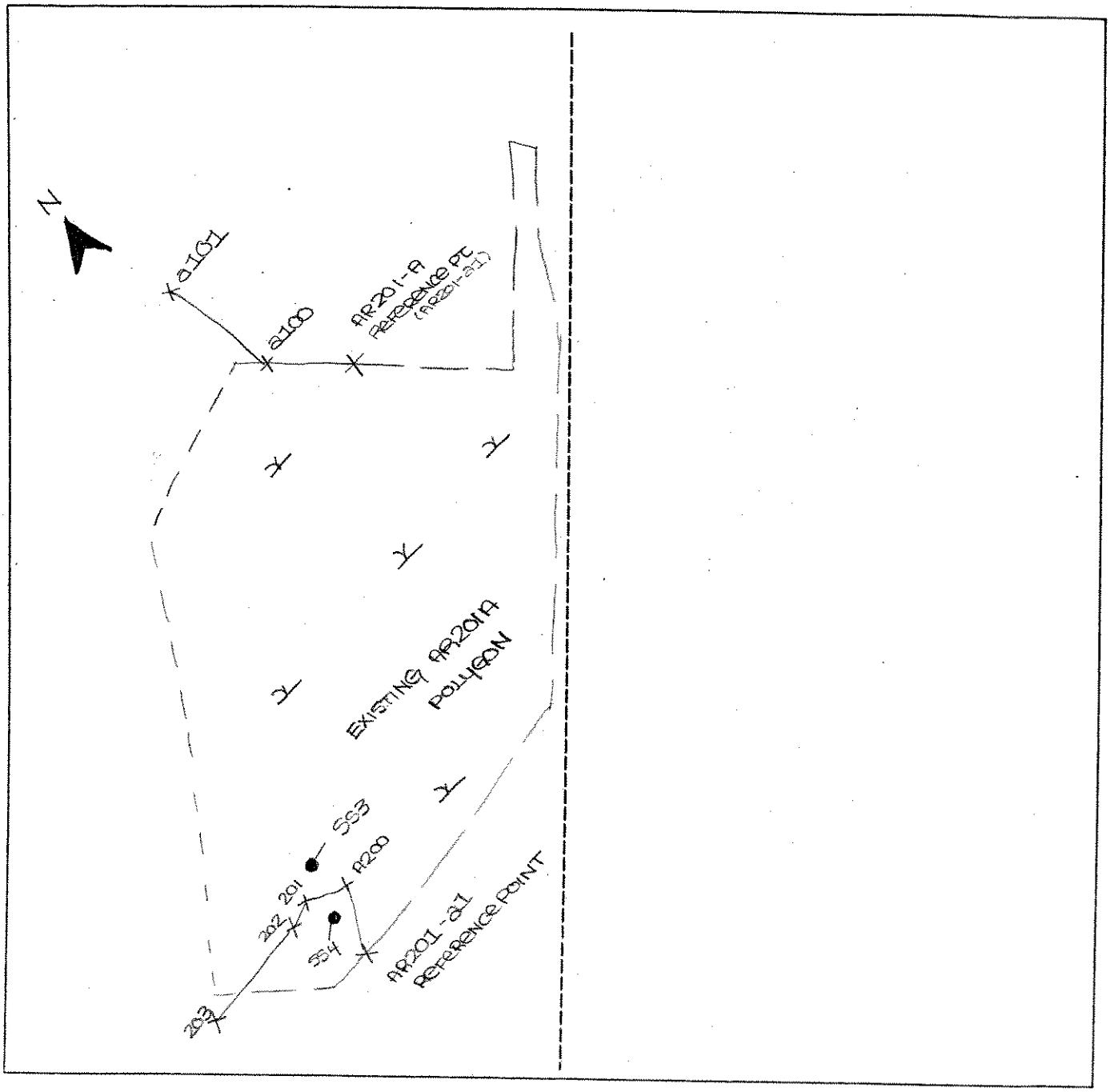
N/A

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

Remarks

SKETCH FORM

Wetland ID/Route #: AR201A EXTENSION	Date: 5/25/2007 Time:
Intials of Delineators: RJD	Location:
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: Clinton County Wetlands Applicant/Owner: Horizon Investigator: RJD, AK	Date: 10/17/05 County: Clinton State: New York
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: AR202A Plot ID: SS1

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 0 Shrub: 80% Herb: 70% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Speckled Alder	S	FACW+	9.		
2. Gray birch	S	FAC	10.		
3. Meadowsweet	S	FAC+	11.		
4. Silky dogwood	S	FACW	12.		
5. Flat Topped Aster	H	FACW	13.		
6. Sphagnum	H	—	14.		
7.			15.		
8			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
X Saturated
___ Water Marks
___ Drift lines
___ Sediment Deposits
X Drainage Patterns In Wetlands (Slight)
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:
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.
0 - 2"	O	10YR 2/1	—	—	ORGANIC
2 - 8"	A_1	10YR 6/2	—	—	CLAY
8 - 18"	A_2	10YR 6/2	10YR 6/8	MANY, COARSE, PROM	CLAY

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ 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: REFUSAL OF AUGER @ 18"

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: Clinton County Wind Farm Applicant/Owner: Horizon Investigator: [illegible], AIC	Date: 10/17/05 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: UPLAND Transect ID: AR202A Plot ID: SS2

VEGETATION UPLAND FOREST / MID SUCCESSIONAL

Plant Community Classification:
Percent Canopy Cover: Tree: 50% Shrub: 80% Herb: 20% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. RED MAPLE	S	FAC	9. RED SPRUCE	S/T	FACU
2. SUGAR MAPLE	S/T	FACU-	10. CLUB MOSS	H	FAC
3. L.L. BLUEBERRY	S	FACU-	11.		
4. Q ASPEN	T	FACU	12.		
5. GRAY BIRCH	S	FAC	13.		
6. WOODFERN	H	FAC+	14.		
7. [illegible]	H	FACU	15.		
8 BRAMBLES	H/S	—	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.): 5"

Wetland Hydrology Indicators:
Primary Indicators:
___ Inundated
X Saturated at 5+"
___ 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:

w/ higher indicator than SS1

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.
0-2	O	10YR 2/1			organic
2-5	A	10YR 5/2	10YR 5/3	common, med, dist.	clay
5-7	B	10YR 5/4			

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:
Restrictive layer at 7"

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

TETRA TECH

SUBJECT Clinton County (Mich) Horizon

PROJECT

TC/P NO.

ORIGINATOR CHECKED

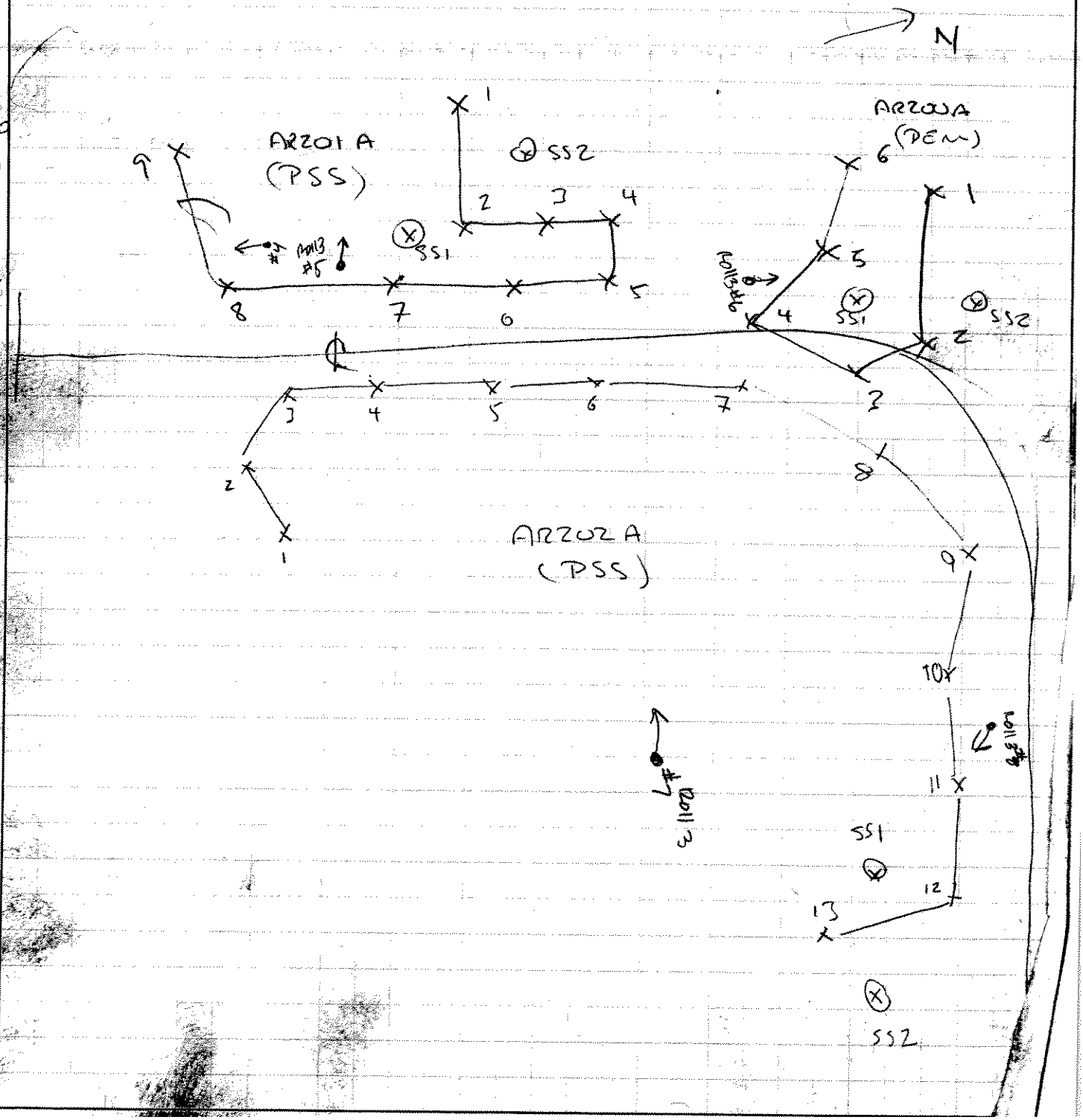
DATE 10/17/05 PAGE OF PAGES

METADATA SKETCH

PHOTOS = ROLL #3, FRAMES 4, 5, 6, 7, 8

AR200A
AR201A
AR202A

TERMINUS OF SURVEY



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

Project Site: Clinton County Windfarm Applicant/Owner: Horizon Investigator: RDT, AIC	Date: 10/17/05 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: wetland Transect ID: AR203 A/B Plot ID: AR203 A/B-SS1

VEGETATION PEM / PSS

Plant Community Classification:
Percent Canopy Cover: Tree: 0 Shrub: 25% Herb: 95% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Gray birch	S	FAC	9. Red maple	H	OBL
2. Red Maple	S	FAC	10.		
3. Steeple bush	S	FACW	11.		
4. Woolgrass	H	FACW+	12.		
5. Sphag moss	H	-	13.		
6. Lake leaf G. Rod	H	FAC	14.		
7. Juncus effusus	H	FACW+	15.		
8 Meadow sweet	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.): 4T inches

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
X 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: 10/17/05
Community ID:
Plot ID: ~~ZB~~ ARZ04A 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.
0-5	O	10YR 2/1	None	—	ORGANIC
5-7	A1	10YR 3/3	NONE	—	CLAY LOAM
7-8	BW	10YR 5/3	NONE	—	CLAY

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:
REFUSAL LAYER @ 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

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

Project Site: Clinton County Airstrip Applicant/Owner: HORIZON Investigator: TEA AK	Date: 10/17/05 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: UPLAND Transect ID: AR203A1B Plot ID: SS-2

VEGETATION MID SUCCESSIONAL

Plant Community Classification:
Percent Canopy Cover: Tree: 0 Shrub: 60% Herb: 75% Vine:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. RED OAK	S	FACU-	9. CANADA goldenrod	H	FACU
2. RED MAPLE	S	FAC	10. QUAKING ASPEN	S	FACU
3. GRAY birch	S	FAC	11. HAWKweed (orange)	H	UPL*
4. BRACKEN FERN	H	FACU	12.		
5. CLUB moss	H	FAC	13.		
6. PENNY EVERLASTING	H	UPL*	14.		
7. WILD STRAWBERRY	H	FACU	15.		
8 SWEET CLOVER	H	FACU-	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 27%

Remarks:
Exposed Bedrock. * - 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.): 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:
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.
0-2"	A	10YR 3/4	—	—	Silt loam
2-8"	B	10YR 4/4	—	—	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: REFUSAL OF AUGER @ 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

TETRA TECH

SUBJECT Clinton Co Wastewater Horizon

PROJECT

TC/P NO.

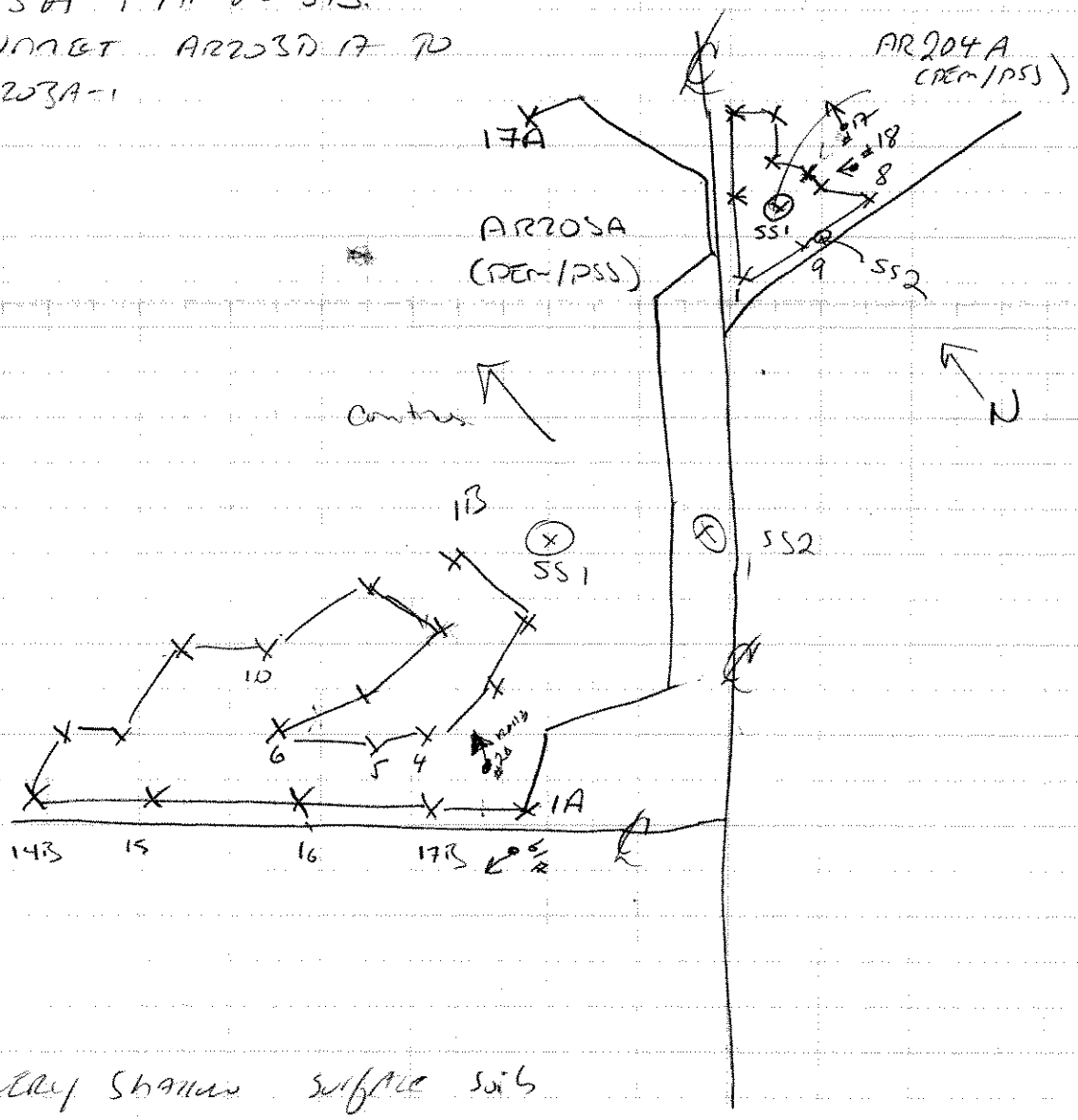
ORIGINATOR CHECKED

DATE 10/17/05 PAGE ___ OF ___ PAGES

PHOTOS - ROLL 3, FRAMES 20, 19, 18, 17

AR203A & AR203B.

NOTE: CONNECT AR203D 17 TO AR203A-1



NOTE: VERY SHALLOW SURFACE SOILS

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator:	Date: 5/25/07 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: ARCOSA113 SS3

VEGETATION PSS / PEM

Plant Community Classification:
Percent Canopy Cover: Tree: Ø Shrub: 55% Herb: 90% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. GRAY BIRCH	S	FAC	9.		
2. RED MAPLE	S	FAC	10.		
3. WAYNE BERRY	S	FAC	11.		
4. STEEPLE BUSH	S	FACW	12.		
5. SPHAGNUM MOSS	H	—	13.		
6. CAREX SSP.	H		14.		
7. JUNCUS EFFUSUS	H	FACW+	15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 5/6 = 83%

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.): 5"

Depth to Saturated Soil (in.): Ø"

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: 5/25/07
Community ID: WETLANDS
Plot ID: AR203A13-SS3

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.
0-2	A	10YR 2/1	—	—	Silt loam
2-8	B1	10YR 5/2	—	—	Clay
8-18	B2	10YR 5/6	2.5Y 6/4	Faint/low/med	Clay loam

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	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: [illegible]	Date: 5/25/07 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: AR203 AMR 554

VEGETATION MID SUCCESSIONAL (SHRUB)

Plant Community Classification:
Percent Canopy Cover: Tree: Ø Shrub: 85% Herb: 80% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. GRAY BIRCH	S	FAC	9. GRASS	H	
2. RED MAPLE	S	FAC	10. CLUB MOSS	H	
3. LO. BLUEBERRY	S	FACU-	11. CANADA MAYFLOWER	H	FAC-
4. MEADOW SWEET	S	FAC+	12.		
5. SERVICE BERRY	S	FAC-	13.		
6. STRAWBERRY	H	UPL	14.		
7. GOLDEN ROD	H		15.		
8 BRAMBLE	S/H		16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/11 = 27%

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):
- X Oxidized Root Channels in Upper 12 inches
- ___ Water-Stained Leaves
- ___ Local Soil survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks:

Date: 5/25/02
Community ID: UPLAND
Plot ID: AR203AUP-SS4

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	A	10YR 2/1			Silty loam
3-8	R	10YR 4/2			Clay loam *

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:

Shallow Soil on Bedrock
Restrict of Aqua at 8"

* Organic Streaking

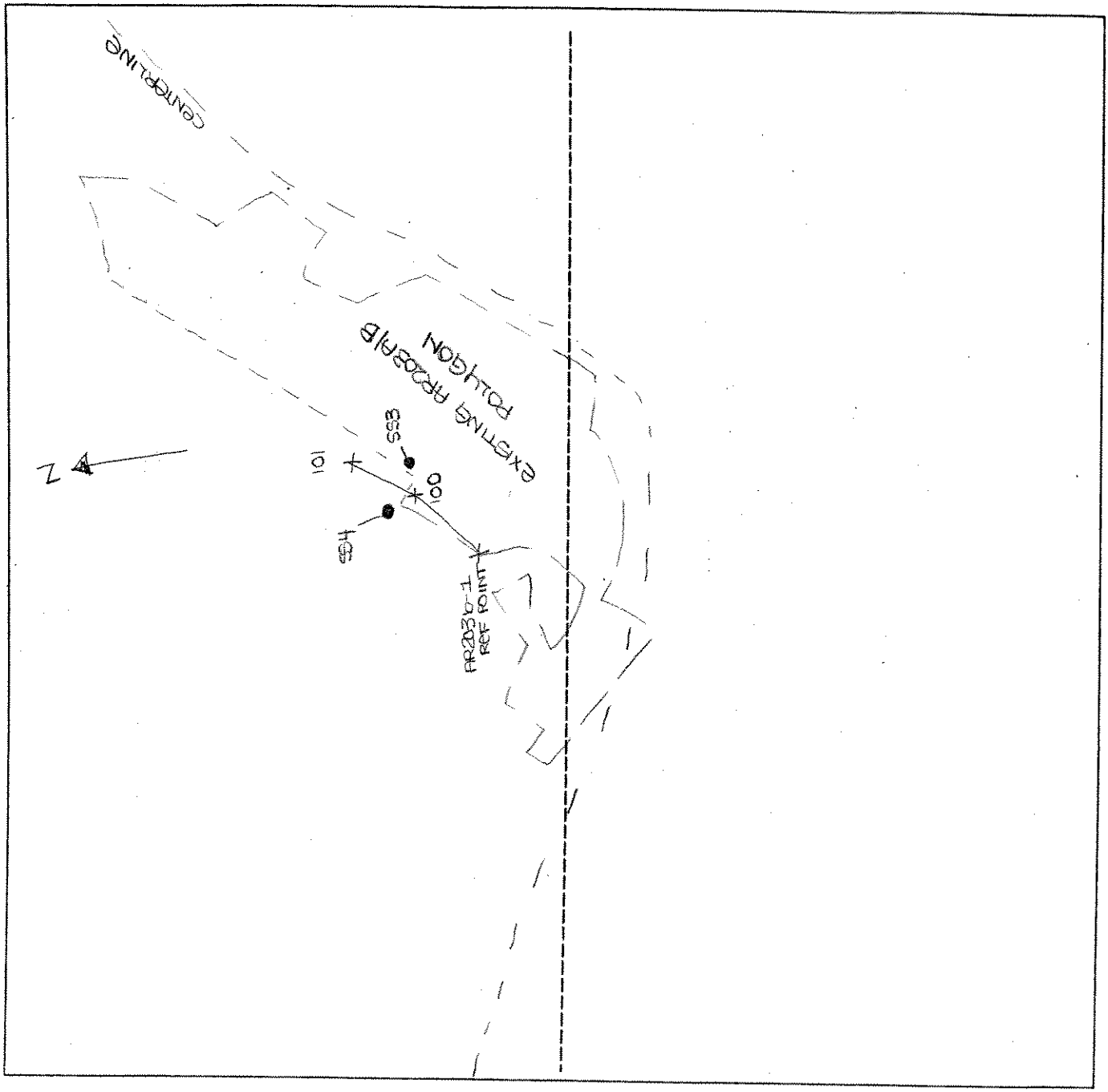
WETLAND DETERMINATION

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

SKETCH FORM

Wetland ID/Route #: AR203 A1B EXT	**Date:** 5/27/07 **Time:**
Intials of Delineators: RJD	**Location:**
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: Clinton County, Wetland Applicant/Owner: Horizon Investigator: TGA, AK.	Date: 10/17/05 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: WETLAND Transect ID: AR204A Plot ID: 551

PEM

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: Ø Shrub: 15% Herb: 80% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Bebb willow	S	FACW	9.		
2. Red maple	S	FAC	10.		
3. Cattail	H	OBL	11.		
4. Wool grass	H	FACW+	12.		
5. J. effusus	H	FACW+	13.		
6. Jewelweed 6. Rud	H	FAC	14.		
7.			15.		
8			16.		

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

Remarks: PEM CENTRAL
PSS AT PERIPHERY

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.): 1.5'
Depth to Free Standing Water in Pit (in.): Ø
Depth to Saturated Soil (in.): Ø

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: STANDING WATER ~ 1.5' Deep

Date:
Community ID:
Plot 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.
0-2	O			—	Root MAT
2-6	A	10YR5/3	—	—	Silty CLAY LOAM
		10YR5/2	10YR3/2	many/Fine/FAINT	Silty CLAY LOAM
6-10"	B	10YR 6/2	—	—	CLAY

50/50 mix

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ 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:
Difficulty in RETRIEVING Soil SAMPLE due to
FROZEN CONDITIONS

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: Clinton County Airport Applicant/Owner: HORIZON Investigator: RTI, AK	Date: 10/17/05 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: UPLAND Transect ID: AR204 A Plot ID: 552

VEGETATION Disturbed Road side

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

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. KNAPWEED	H	UPL*	9.		
2. CANADA G. ROD	H	FACU	10.		
3. WILD LETTUCE	H	FACU-	11.		
4. RED CLOVER	H	FACU-	12.		
5. YARROW	H	FACU	13.		
6. BULL THISTLE	H	FACU-	14.		
7. COMM VETCH	H	UPL*	15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0

Remarks: * 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.): 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:
Community ID:
Plot 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.
0-8	A	10YR 3/3	—	—	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:

REFUSAL of Auger 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

TETRA TECH

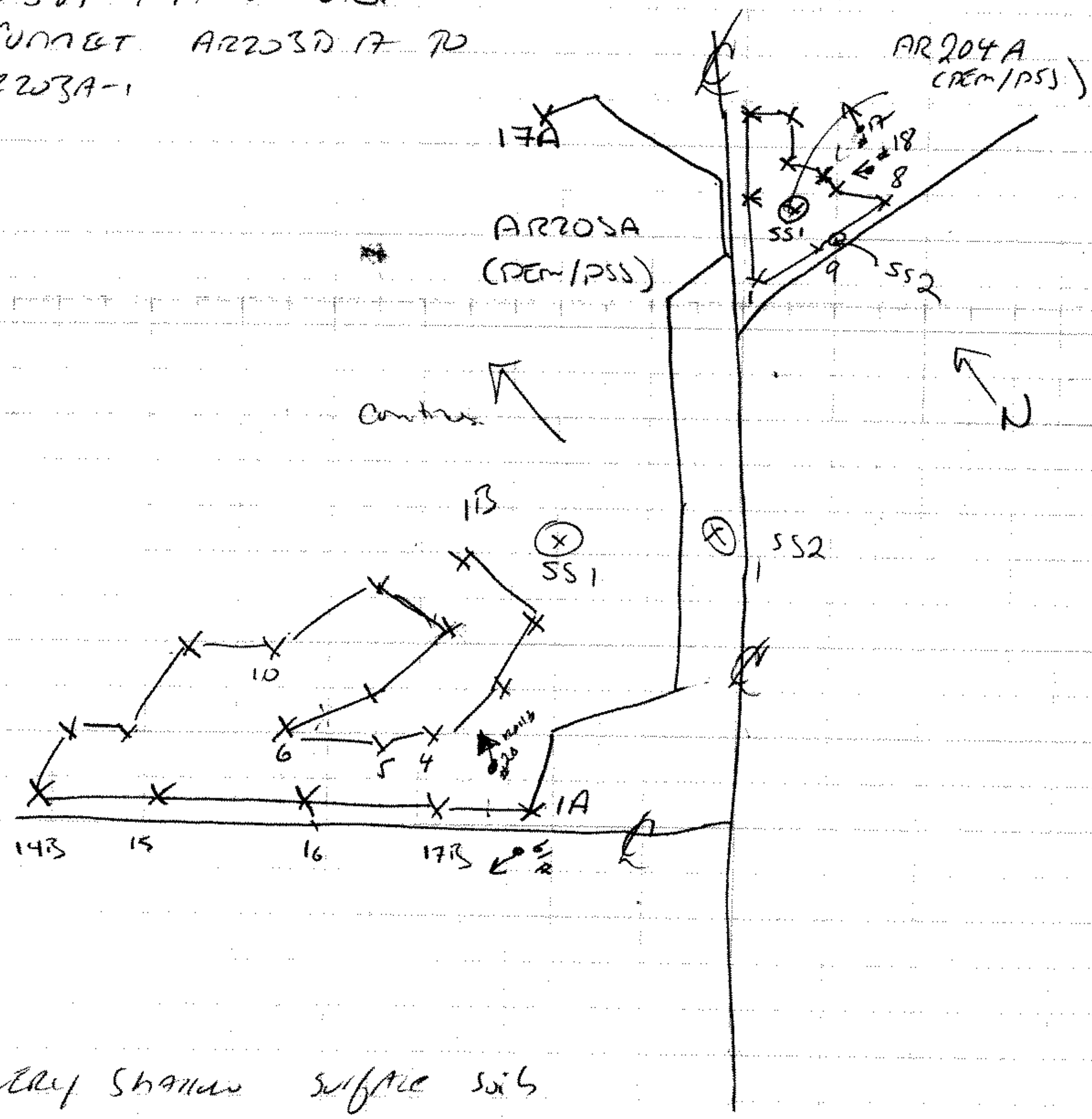
SUBJECT: Clinton Co Windfarm Horizon | PROJECT:
ORIGINATOR: | CHECKED: | TC/P NO.:
DATE: 10/17/05 | PAGE ___ OF ___ PAGES

AR204-A

AR203A & AR203B

NOTE: CONNECT AR203B 17 TO AR203A-1

PHOTOS - ROLL 3, FRAMES 20, 19, 18, 17



NOTE: very shallow surface soils

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

Project Site: Clinton County / ~~Ellenburg~~ Applicant/Owner: Horizon Renewable Energy Investigator: RTT, AK	Date: 10/17/05 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: WETLAND Transect ID: AR205A Plot ID: SS1

VEGETATION PSS WETLAND

Plant Community Classification:
Percent Canopy Cover: Tree: 10% Shrub: 40% Herb: 75% Vine: 5%

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Speckled Alder	S	FACW+	9.		
2. Gray Birch	T/S	FAC	10.		
3. Sensitive Fern	H	FACW	11.		
4. Tall Goldenrod	H	FACW	12.		
5. Fowl Meadow Grass	H	FACW	13.		
6. Carex Crinita	H	OBL	14.		
7. Virgin Bower	V	FAC	15.		
8			16.		

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

Remarks: NOTE:
- Carex Lurida - Woolgrass - Lance leaved goldenrod
- Juncus Effusus - Elder
observed in other parts of wetland

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: X Inundated X Saturated in upper 12 inches ___ Water Marks X Drift lines ___ Sediment Deposits ___ Drainage Patterns In Wetlands
Field Observations: Depth of Surface Water (in.): n/A Depth to Free Standing Water in Pit (in.): 0" Depth to Saturated Soil (in.): 0"	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:
Just west of confluence of STA & STB

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.
0-8"	A	10YR 3/1	—	—	Silt clay loam

Hydro Soil Indicators

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ 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)

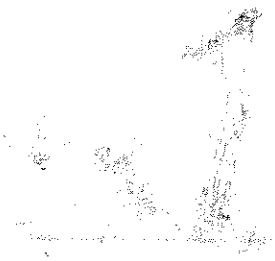
Remarks:

Refusal of auger at 8"

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~~ Applicant/Owner: Horizon Renewable Energy Investigator: RDD, AJC	Date: 10/17/05 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: UPLAND Transect ID: A2205 A Plot ID: SS2

VEGETATION UPLAND FOREST

Plant Community Classification:
Percent Canopy Cover: Tree: 70% Shrub: 20% Herb: 40% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. BLK CHERRY	T	FACU	9. WOOD FERN	H	FACW
2. SUGAR MAPLE	T/S	FACU-	10. VIOLET SPECIES	H	UPL *
3. RED MAPLE	T/S	FAC	11. GRASS SP	H	unknown
4. GRAY BIRCH	T	FAC	12. CANADA GOLDENROD	H	FACU
5. AMERICAN BEECH	S	FACU	13.		
6. SPRUCE	T	FACU	14.		
7. BASSWOOD	S	FACU	15.		
8 BRAMBLES	S	unknown	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 25%

Remarks: * 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.): 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 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: RECENT HEAVY RAIN

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.
0-2	O	10YR 2/1	—	—	ORG
2-8	A	10YR 3/3	—	—	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:

Restrictive layer at 8"

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~~ Applicant/Owner: Horizon Renewable Energy Investigator: RTD, AK	Date: 10/17/05 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: WETLAND Transect ID: AR205B Plot ID: 551

VEGETATION PEM / PSS

Plant Community Classification:
Percent Canopy Cover: Tree: 5% Shrub: 40% Herb: 75% Vine: ∅

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Steeple bush	S	FACW	9. Lance leaved goldenrod	H	FAC
2. Meadowsweet	S	FAC+	10. Gray birch	S	FAC
3. Amer Elm	T	FACW-	11. Red maple	S	FAC
4. Rattlesnakegrass	H	OBL	12.		
5. Fowl meadow grass	H	FACW	13.		
6. Bone set	H	FACW+	14.		
7. R.S. Goldenrod	H	FAC	15.		
8 Carex crinata	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
  ___ Other
___ No Recorded Data Available

Field Observations:

Depth of Surface Water (in.): 4" in places

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

Depth to Saturated Soil (in.): ∅

Wetland Hydrology Indicators:
Primary Indicators:
 X Inundated
 X 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:
Edge of Beaver Pond

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	10YR 2/1	—	—	OM
3-6	A	10YR 3/2	10YR 5/6	FEW, Fine, Distinct	CLAY LOAM

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ 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:

REDUCTION OF Argic AT 6"

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~~ Applicant/Owner: Horizon Renewable Energy Investigator: RAT - AK	Date: 10/17/05 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: UPLAND Transect ID: AR2-05 B Plot ID: 552

VEGETATION UPLAND FOREST

Plant Community Classification:
Percent Canopy Cover: Tree: 75% Shrub: 30% Herb: 20% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Toothed Aspen	T/S	FACU-	9. MOSS	H	unknown
2. Mt. Alder	S	FAC	10. Blk Cherry	S	FACU
3. Gray birch	S	FAC	11. Ironwood	T/S	FACU
4. Service Berry	S	UPL*	12.		
5. Wood reed grass	H	UPL*	13.		
6. Wood fern	H	FAC+	14.		
7. Brambles	S/H	unknown	15.		
8 Canada goldenrod	H	FACU	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 27%

Remarks: * 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.): N/A
Depth to Free Standing Water in Pit (in.): N/A
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:
Recent Heavy Rain Shallow Surface Soils

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	10YR 2/1			OM
1 - 2	A	10YR 3/3			Silty Clay
2 - 7	B	10YR 4/3			Clay 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:

Exposed Bed Rock

Refusal of Auger at 7"

WETLAND DETERMINATION

			(Circle)
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

TETRA TECH

SUBJECT AR205 A/B

ORIGINATOR ______ CHECKED ______

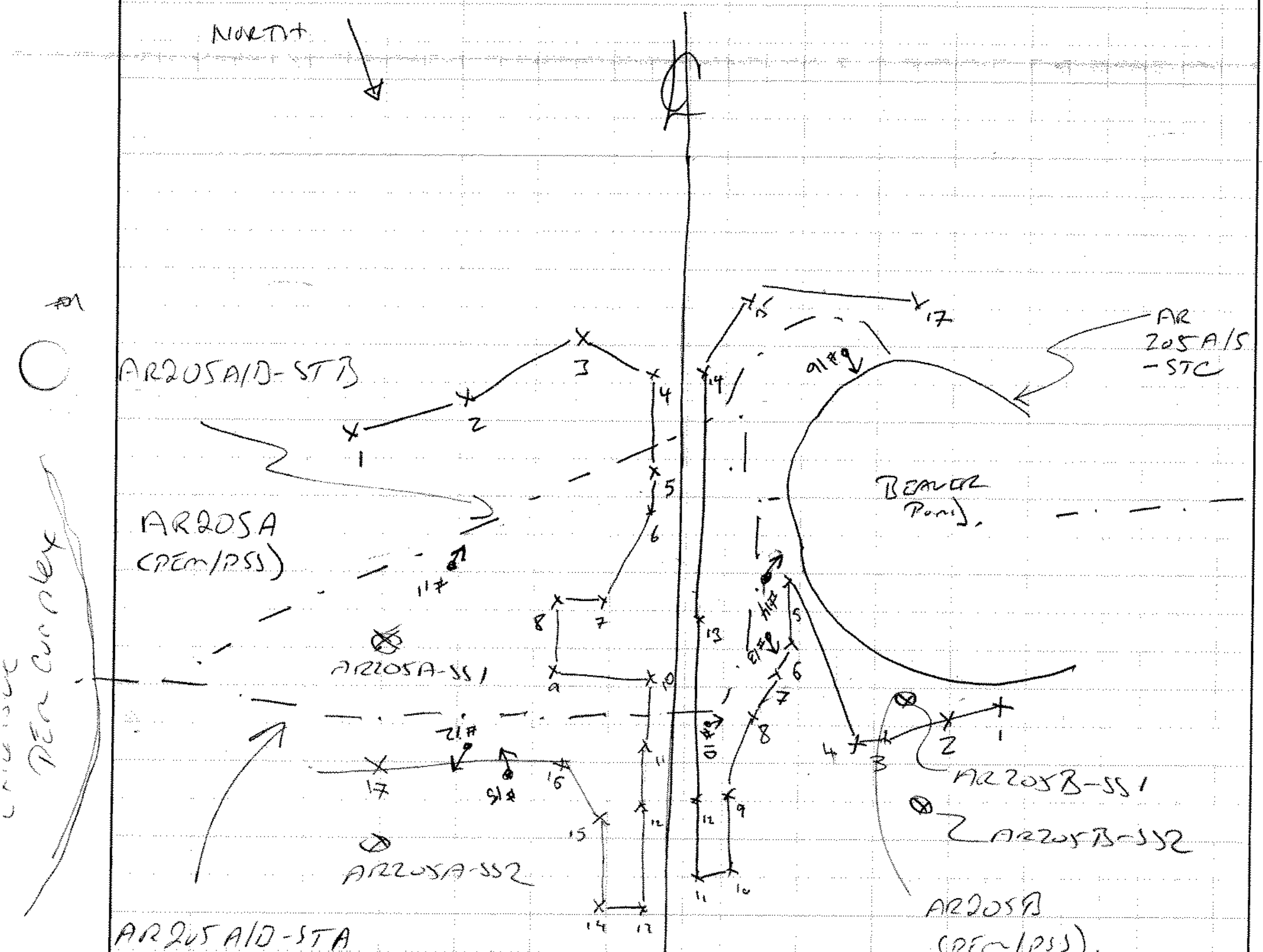
PROJECT Clark Co [illegible]

TC/P NO. [illegible]

DATE 10/17/05 PAGE ___ OF ___ PAGES

PHOTOS ROLL 3 - 10, 11, 12, 13, 14, 15, 16

AR205A/B &
AR205 A/B-ST A, B & C



Line extension

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: KAD	Date: 5/24/07 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: AR205A1B Plot ID: SS-3

VEGETATION Perm wetland - includes Drained beaver Pond

Plant Community Classification:
Percent Canopy Cover: Tree: 0 Shrub: 10% Herb: 80% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Phragmites	S	FAC+	9.		
2. Carex sp	H+		10.		
3. Green bulrush	H	OBL	11.		
4. Grass sp	H		12.		
5.			13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 2/4 = 50%.

Remarks: Reed Canary & Sensitive fern in drier parts of wet

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.): 2" in places
Depth to Free Standing Water in Pit (in.): 2"
Depth to Saturated Soil (in.): 0"

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated
___ Water Marks
X 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: Drained Beaver pond continuous to perennial stream

Raccoon tracks in mud

Date: 5/24/07
Community ID: wetland
Plot ID: AR205A12

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.
0-17	A	10YR 2/1	—	—	silty muck

Hydro Soil Indicators

- ___ Histosol
- ___ Histic Epipedon
- X 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

Not ✓ soil/hydr

Is this Sample Station Point Within a Wetland? Yes No

Remarks

Line extension

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: RAD	Date: 5/24/07 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: ARBOR A1S Plot ID: SS 4

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 55% Shrub: 80 Herb: 7% Vine: 2%

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. BRAMBLE	S		9.		
2. RED MAPLE	T/S	FAC	10.		
3. MEADOW SWEET	S	FAC+	11.		
4. GOLDEN ROD	H		12.		
5. RIVERBANK GRAPE	H	FAC	13.		
6. BOREAL HOLLY	S	FAC	14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 4/7 = 57%

Remarks:

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

Remarks:

Date: 5/24/07
Community ID: cpCAM
Plot ID: AR205 A113-SS4

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	10YR2/1	—	—	Black Silt loam w/ Leaf Litter

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:
Very Rocky

WETLAND DETERMINATION

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

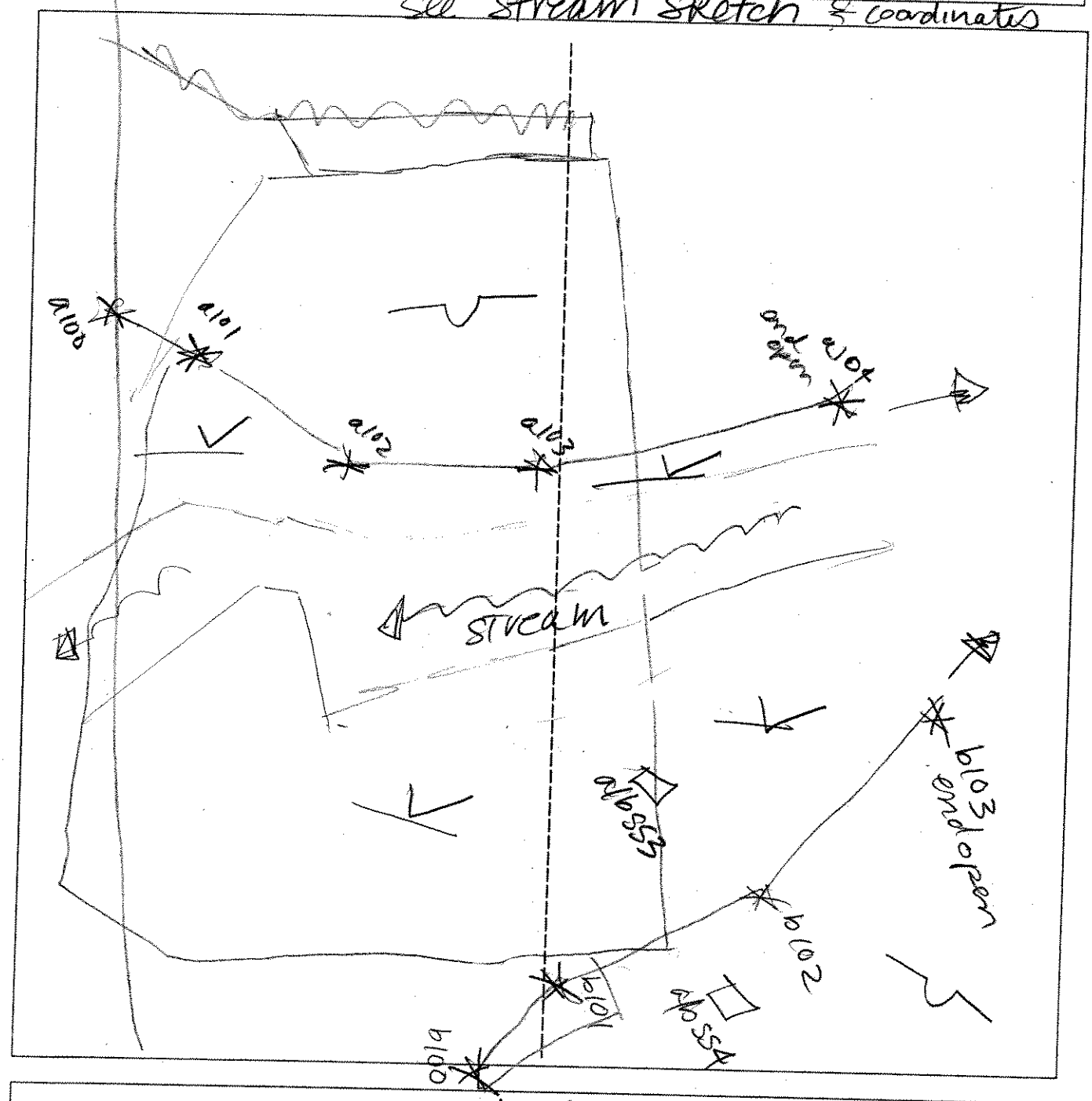
Is this Sample Station Point Within a Wetland? Yes (No)

Remarks

SKETCH FORM

Wetland ID/Route #: AR205 A/B	**Date:** 5/24/07 **Time:**
Intials of Delineators: KD AP	**Location:**
Roll #: **Frames:**	

See stream sketch & coordinates



Legend

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

*GPS real time location didn't match up with background LiDo data

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

Project Site: Clinton County Applicant/Owner: Hyrtron Investigator: RDS, AK	Date: 10/18/05 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: WETLAND Transect ID: AR206A Plot ID: 551

VEGETATION PEM WETLAND

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. Tall Goldenrod	H	FACW	9. Jewelweed	H	FACW
2. Lance-leaved Goldenrod	H	FAC	10. Rush Aster	H	OBL
3. Boneset	H	FACW+	11. Bottle weed	H	OBL
4. Sensitive Fern	H	FACW	12. Carex sp	H	—
5. Fowl meadow grass	H	FACW	13. Juncus effusus	H	FACW+
6. Rattlesnake Grass	H	OBL	14.		
7. NY - Aster	H	FACW+	15.		
8. Joe Pye weed	H	—	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.): Ø

Depth to Saturated Soil (in.): Ø

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:
Community ID:
Plot 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.
0-2	O	10YR 2/1	NONE		ORGANIC
2-8	A1	10YR 3/2	10YR 6/2	MANY COARSE FROM	CLAY LOAM
8-12	A2	10YR 3/1	NONE		CLAY LOAM
12-14	B	10YR 3/2	10YR 6/4	MANY COARSE FROM	SANDY LOAM

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: AUGER REFUSAL @ 14"

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: Clinton County Applicant/Owner: Hurron Investigator: TBD, AIC	Date: 10/18/05 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: UPLAND Transect ID: AR206A- Plot ID: SS2

VEGETATION UPLAND FOREST

Plant Community Classification:
Percent Canopy Cover: Tree: 85 Shrub: 75% Herb: 50 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Sugar maple	T/S	FACU-	9.		
2. Wood fern	H	FACW	10.		
3. Raspberry	S/H	unknown	11.		
4. Wild rose	H	UPL*	12.		
5. American elm	S	FACU	13.		
6. Aspen	T	FACU	14.		
7. mum	H	unknown	15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 14%

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:
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.
0-2	O	10YR 2/1	NONE	—	ORGANIC
2-6	A	10YR 2/2	NONE	—	CLAY LOAM

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: AUGER REFUSAL @ 6"

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

AR206A

AR206A EXTENSION

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: JV AP	Date: 5/10/07 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: AR206A Transect ID: Plot ID: PEM

VEGETATION

Plant Community Classification: Adjacent to open Field

Percent Canopy Cover: Tree: 0 Shrub: <5 Herb: 99 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Sensitive Fern	H	FACW	9.		
2. Aster	H	—	10.		
3. Spirea latifolia	H	FACW	11.		
4. Wood Horsetail	H	FACW	12.		
5. Grass sp	H	—	13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): >50 %.

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.): NA

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

Depth to Saturated Soil (in.): 0"

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: 6/10/07 wetland SS1
Community ID:
Plot ID: AR206

SOILS

Map Unit Name (Series and Phase): 94 VL

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	10YR 2/2			loam
12-15	B	10YR 3/3			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: saturation @ 0", H_2O in pit @ ~12"

WETLAND DETERMINATION

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

Remarks Photo = S

5/10/07

A AR206A

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: JV AP	Date: 5/10/07 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: AR206A Plot ID: EXTENSION

VEGETATION

Plant Community Classification: Open Field

Percent Canopy Cover: Tree: 0 Shrub: 0 Herb: 100 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Alsike Clover	H	FACU	9.		
2. Plantain	H	FACU	10.		
3. Galium	H	FACU	11.		
4. Vetch	H	FACU	12.		
5. Dandelion	H	FACU	13.		
6. Thistle	H	FACU	14.		
7.			15.		
8			16.		

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

Remarks:

HYDROLOGY

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

X No Recorded Data Available

Field Observations: NA

Depth of Surface Water (in.):

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

Depth to Saturated Soil (in.):

Wetland Hydrology Indicators: NA

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: 5/10/07
Community ID: Upland SS2
Plot ID: AR206 A

SOILS

Map Unit Name (Series and Phase):

Drainage Class:

Field Observations
Confirm Mapped Type? Yes No

Taxonomy (SubGroup):

Profile Description:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottles Abundance/Size/ Contrast	Texture, Concretions, Structure, etc.
0-12	A	10YR 3/2			silt loam
12-15	A1	10YR 3/2	10YR 2/1	common, distinct, sparse	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:

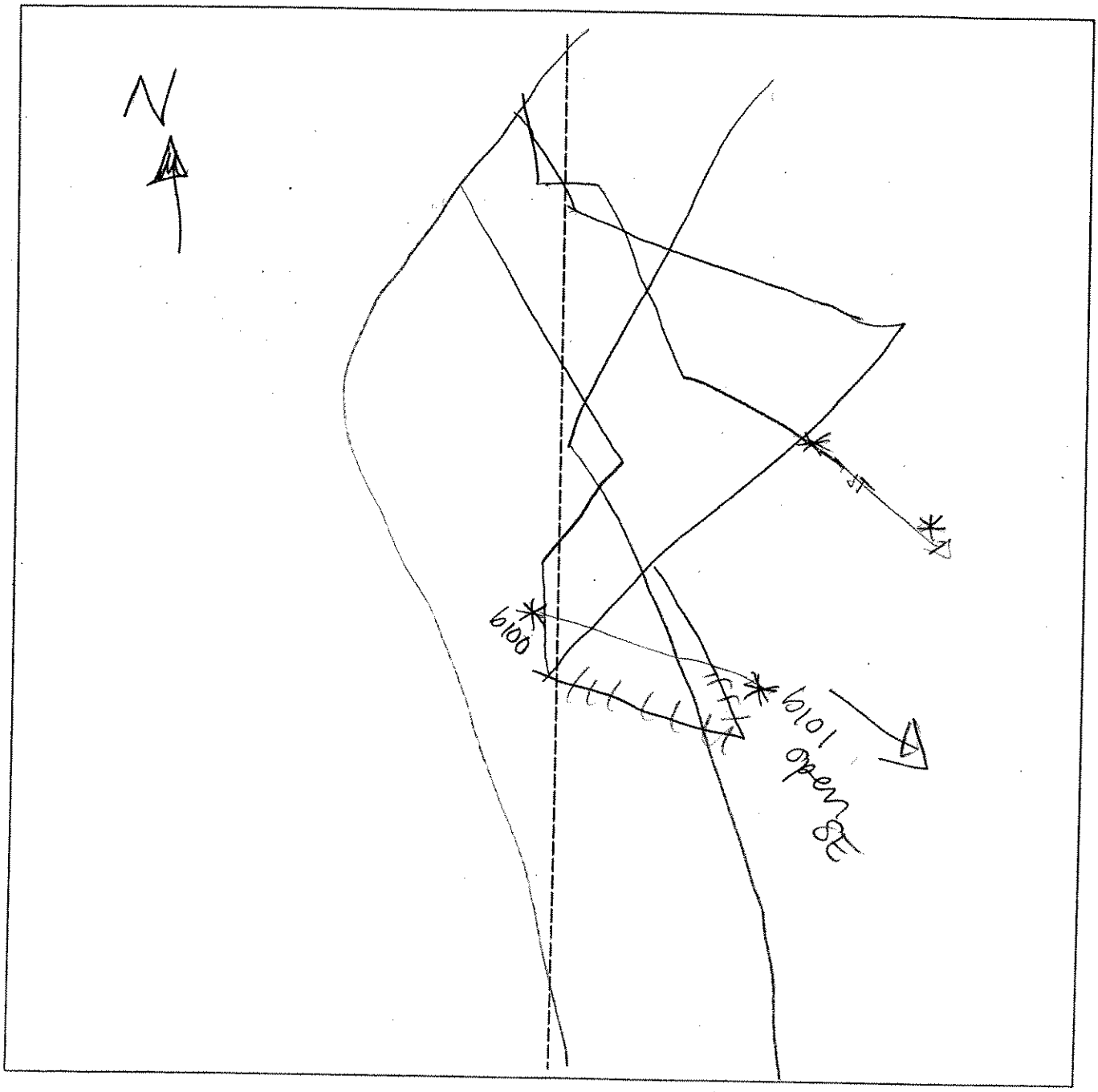
WETLAND DETERMINATION

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

Remarks

SKETCH FORM

Wetland ID/Route #: AR206 EXTENSION	Date: 10 May 07 Time:
Intials of Delineators: JV AP	Location:
Roll #: Frames:	



Legend

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

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

Project Site: Clinton County ~~/ Ellenburg~~ Applicant/Owner: Horizon Renewable Energy Investigator: RTD, AMC	Date: 10/18/05 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: WETLAND A Transect ID: AR206 TS Plot ID: SS1

VEGETATION PEM WETLAND

Plant Community Classification:
Percent Canopy Cover: Tree: Ø Shrub: <5% Herb: 100% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. JEWELWEED	H	—	9. BIDENS	H	FACW+
2. CATTAIL	H	OBL	10. JUNCUS EFFUSUS	H	FACW+
3. BLACK willow	S	FACW	11. LARGE LEAVED GOLDENROD	H	FAC
4. FLAT TOP ASTER	H	FACW	12. CANADA RUSH	H	OBL
5. SENSITIVE FERN	H	FACW	13. DICKCISSEL BULRUSH	H	OBL
6. RUSH ASTER	H	OBL	14. CAREX SP	H	—
7. JEWELWEED	H	FACW	15.		
8. HORSETAIL RUSH	H	—	16.		

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

Remarks:
DIVERSE

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: X Inundated X Saturated in upper 12 inches ___ Water Marks ___ Drift lines ___ Sediment Deposits X 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.): 4" in places Depth to Free Standing Water in Pit (in.): Ø Depth to Saturated Soil (in.): Ø	

Remarks:

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	10YR 2/1	NONE	—	ORGANIC
3-8	A	10YR 3/2	NONE	—	CLAY LOAM

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ 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: AUGER REFUSAL @ 8"

WETLAND DETERMINATION

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

Remarks

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

Project Site: Clinton County Applicant/Owner: Military Investigator: RTA, BK	Date: 10/18/05 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: UPLAND Transect ID: AR706B Plot ID: SS2

VEGETATION UPLAND FOREST

Plant Community Classification:
Percent Canopy Cover: Tree: 85% Shrub: 60% Herb: <5% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Sugar maple	T/S	FACU-	9.		
2. Red Spruce	T	FACU	10.		
3. Hobblebush	H	FACT	11.		
4. Moss	H	—	12.		
5. Wild Red Oats	H	UPL*	13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 20%

Remarks: * 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.): 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:
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.
0-1	O	10YR 2/1	NONE		ORGANIC
1-6	A	10YR 5/1	NONE		CLAY LOAM

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: AUGER REFUSAL @ 6"

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

TETRA TECH

SUBJECT AR206 A/B

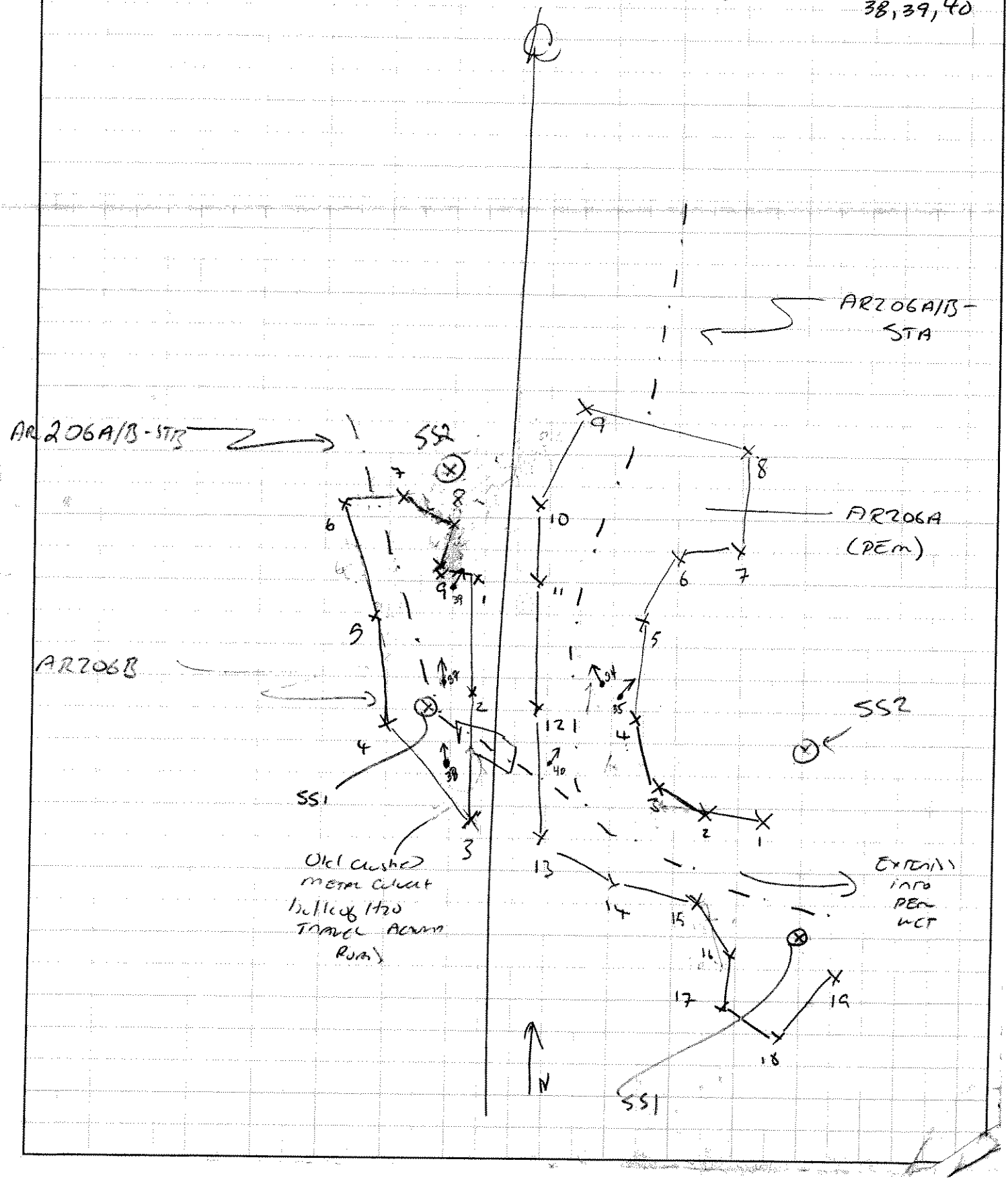
ORIGINATOR _____ CHECKED _____

PROJECT Clinton Co Cumberson

TC/P NO. Hurricane

DATE 10/18/05 PAGE ____ OF ____ PAGES

PHOTOS - DIGITAL FILE
P-101805 FRAMES: 34, 35, 37
38, 39, 40



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

Project Site: Clinton County Applicant/Owner: Horizon Investigator: RAA AK	Date: 10/19/05 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: WETLAND Transect ID: AR 207A Plot ID: SS1

VEGETATION PEM/PSS - OW

Plant Community Classification:
Percent Canopy Cover: Tree: 5% Shrub: 10% Herb: 40% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Juncus Effusus	H	FACW+	9. Rubus odoratus	S	FACW+
2. Fraxinus Nigra	H	FACW	10. Horsetail Rush	H	—
3. Dogwood Silky	H	OBL	11.		
4. Red maple	S	FAC	12.		
5. Bebb Willow	S	FACW	13.		
6. Reed canary grass	H	FACW+	14.		
7. Bugle weed	H	OBL	15.		
8 Sphagnum moss	H	—	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.): 12"

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

Depth to Saturated Soil (in.): Ø

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X 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):

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	O	10YR 2/1	NONE		SILTY ORGANIC
1-12	A	10YR 7/2	10YR 5/6 10YR 5/8	FEW, FINE, DISTINCT MANY, COARSE, DISTINCT	SILTY SANDY CLAY

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ 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: AUGER STOP @ 12"

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 Applicant/Owner: Horizon Investigator: [redacted], AK	Date: 10/19/05 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: UPLND Transect ID: AR207A Plot ID: SS2

VEGETATION UPLAND FOREST

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

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Sugar maple	T/S	FACU-	9.		
2. Common Violet	H	UPL*	10.		
3. Gray birch	S	FAC	11.		
4. Q rubra	S	FACU	12.		
5. Brambles	S	unknown	13.		
6. Beech beech	H	FAC-	14.		
7. Canada Golden Rod	H	FACU	15.		
8 Woodfern	H	FAC+	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 25%

Remarks:
* 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.): 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 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.
0-1	O	10YR 2/1	NONE	—	SLT ORGANIC
1-3	A	10YR 3/3	NONE	—	SANDY CLAY
3-6	B1	10YR 7/4	NONE	—	SANDY CLAY
6-8	B2	10YR 6/3	10YR 5/8	MANY LARGE MEDIUM	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: AUGER REFUSAL @ 8"
≐ 6" TO WATER

WETLAND DETERMINATION

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

Remarks

SKETCH FORM

Wetland ID/Route #: AR207A	**Date:** 10/19/05 **Time:** 0940
Intials of Delineators: RDD, AK	**Location:** North end of Source Rd.
Roll #: 4 **Frames:** 24, 23	TEAM B

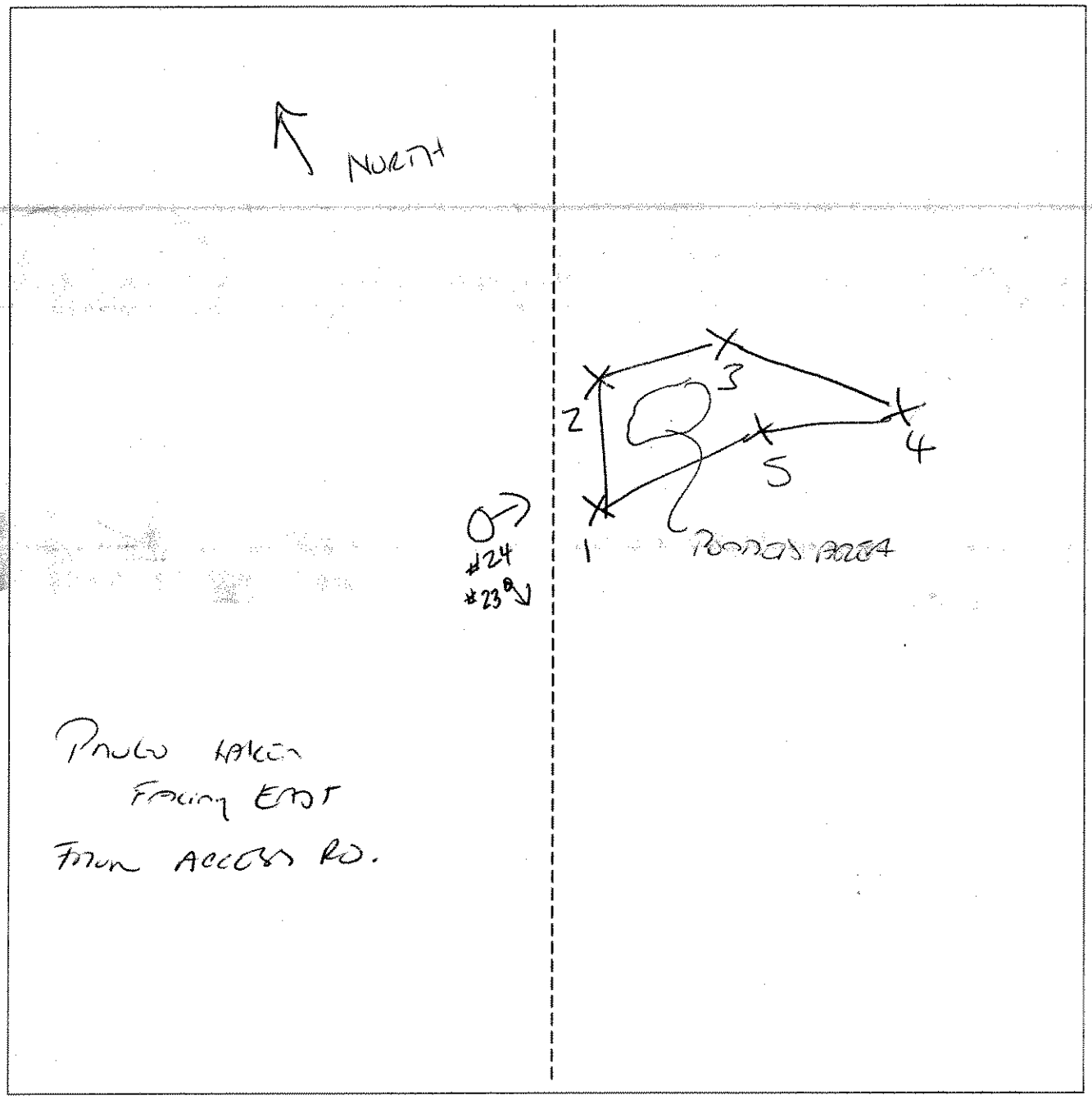


Photo taken facing East from Access Rd.

Legend

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

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

Project Site: Clinton County Applicant/Owner: Horton Investigator: RTD, AK	Date: 10/19/05 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: Wetland Transect ID: AR 208 A Plot ID: SS1

VEGETATION (PEM WETLAND)

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

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Common Smartweed	H	OBL	9. Carex scoparia	H	FACW
2. Wool grass	H	FACW+	10. Canada Rush	H	OBL
3. Dk grn bullrush	H	OBL	11. Aster - Juncus	H	OBL
4. Willow herb	H	OBL	12. Horsetail Rush	H	—
5. Tape leaved goldenrod	H	FAC	13. Red osier dogwood	S	FACW+
6. Cattail	H	OBL	14.		
7. Fowl manna grass	H	FACW	15.		
8 Bottle sp. sedge	H	—	16.		

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

Remarks:
NOTE: LEMNA ON PONDED AREA

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: X Inundated X 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.): 4" in places Depth to Free Standing Water in Pit (in.): Ø Depth to Saturated Soil (in.): Ø	

Remarks:

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.
0-2	O	10YR 2/1	NONE	—	~~SANDY CONCRETE~~
2-4	A1	10YR 2/1	NONE	—	SANDY CLAY
4-6	A2	10YR 4/1	NONE	—	CLAY

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ 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: AVG OUT @ 6"
0" TO H_2O

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: AR208A - 552 Clinton County Applicant/Owner: HORIZON Investigator: T.R., A.K.	Date: 10/19/05 County: CLINTON State: N.Y
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: AR208A Plot ID: 552

VEGETATION UPLAND FOREST

Plant Community Classification:
Percent Canopy Cover: Tree: 80% Shrub: 10% Herb: 15% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. ACER RUBRUM	T/S	FAC	9. Club moss	H	FAC
2. YELLOW BIRCH	T	FAC	10. moss sp	H	—
3. STRIPED MAPLE	S	FACU	11. MT. ALDER	S	FAC
4. SUGAR MAPLE	T/S/H	FACU-	12. WOODFERN	H	FAC+
5. BASSWOOD	S	FACU	13. INDIAN TOBACCO	H	FACU
6. GOLDENROD (CANADA)	H	FACU	14. ASTER SP	H	—
7. RASPBERRY	S	unknown	15. TRILLIUM	H	FACU-
8. Q. ALDER	T	FACU	16.		

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

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: ___ Inundated _X_ 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.): Ø Depth to Free Standing Water in Pit (in.): ~~N/A~~ 0" Depth to Saturated Soil (in.): 2"	

Remarks:
Recent heavy Rain & shallow Soils

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.
0-2	A	10YR 3/4	NONE	—	~~SILT LOAM~~ ORGANIC
2-6	A	10YR 3/4	NONE	—	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: AUGER OUT @ 6"

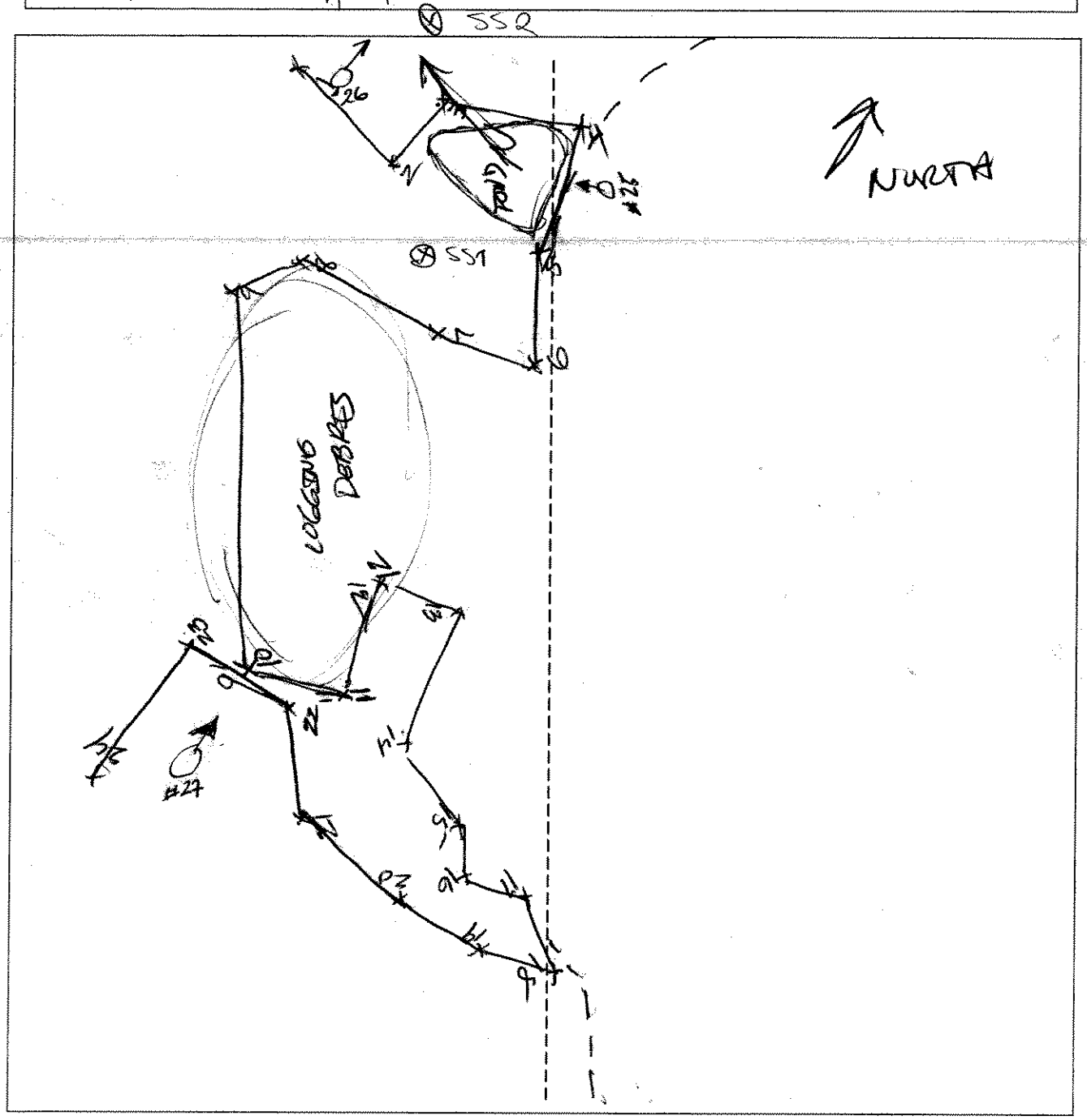
WETLAND DETERMINATION

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 #: AR208A	**Date:** 10/19/05 **Time:** 1000
Intials of Delineators: [illegible], AK	**Location:** North Side of Sourdough Rd
Roll #: 4 **Frames:** 27, 26, 25	



Legend

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

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

Project Site: CANTON NY Applicant/Owner: HORIZON Investigator: AK	Date: 10/20/06 County: CANTON 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: AP209A Plot ID: SS 1A

VEGETATION EMERGENT WETLAND - PEM

Plant Community Classification:
Percent Canopy Cover: Tree: 2% Shrub: 4% Herb: 80% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. JUNCUS EFFUSUS	H	FACW+	9. RICE CUTGRASS	H	OBL
2. SWEETFLAG	H S	FACW	10.		
3. WOOL GRASS	H	FACW+	11.		
4. GREY BIRCH	T	FAC	12.		
5. RED MAPLE	T	FAC	13.		
6. RATTLESNAKE GRASS	H	OBL	14.		
7. MEADOWSWEET	S	FACW+	15.		
8 SPHAGNUM MOSS	H	—	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	Wetland Hydrology Indicators: Primary Indicators: X Inundated X Saturated in upper 12 inches X 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.): 1' Depth to Free Standing Water in Pit (in.): 0" Depth to Saturated Soil (in.): 0"	

Remarks:

ID:

SOILS

Map Unit Name (Series and Phase): AR209A - 551A

Drainage Class: PEM

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	10YR 2/1	NONE	—	ORGANIC
1-6	A	10YR 3/2	NONE	—	SANDY CLAY

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: AUGER REFUSAL @ 6"
0" TO WATER

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	(Yes) No	(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, NY Applicant/Owner: HORIZON Investigator: AC, JF	Date: 10/20/08 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: AR 209A Plot ID: SSZA

VEGETATION DECIDUOUS FOREST / MED-SUCCESSIONAL

Plant Community Classification:
Percent Canopy Cover: Tree: 50% Shrub: 0 Herb: 10% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. YELLOW BIRCH	T	FAC	9.		
2. RED MAPLE	T	FAC	10.		
3. GREY BIRCH	T	FAC	11.		
4. BRACKEN FERN	H	FACU	12.		
5.			13.		
6.			14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 75%

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.): NA

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

Depth to Saturated Soil (in.): NA

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):

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 3/4	NONE	—	SANDY LOAM
6-	B	10YR 2/1	10YR 6/2	MANY LARGE DISTINCT	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: AUGER REFUSAL @ 12"

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, NY Applicant/Owner: HORIZON Investigator: AL, JF	Date: 10/29/05 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: WETLAND Transect ID: HR209A Plot ID: 551 B

VEGETATION WETLAND PEMFO1

Plant Community Classification:
Percent Canopy Cover: Tree: 15% Shrub: 5% Herb: 85% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. RATTLESNAKE GRASS	H	OBL	9. JUNCUS EFFUSUS	H	FACW+
2. WOOL GRASS	H	FACW+	10.		
3. MEADOW SWEET	S	FACW	11.		
4. STEEPLE BUSH	S	FACW	12.		
5. RED MAPLE	T	FAC	13.		
6. YELLOW BIRCH	T	FAC	14.		
7. GREY BIRCH	T	FAC	15.		
8 SPHAGNUM MOSS	H	—	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.): UP TO 1' IN PLACES

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

Depth to Saturated Soil (in.): 0"

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated
X Saturated in upper 12 inches
___ Water Marks
___ Drift lines
___ Sediment Deposits
X 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.
0-2	O	10YR2/1	NONE	—	SOFT
2-6	A	10YR 6/1	NONE	—	SANDY CLAY
6-12	B	GLEY1 6/5GY	10YR 5/6	MANY/LARGE/DIST	CLAY LOAM

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: AUGER REFUSAL @ 12"
0" TO WATER

WETLAND DETERMINATION

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

(Circle)
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, NY Applicant/Owner: HORIZON Investigator: AK, JF	Date: 10/20/05 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: UPLAND Transect ID: AR209A Plot ID: 852B

VEGETATION DECIDUOS FOREST / MID-SUCCESSIONAL

Plant Community Classification:
Percent Canopy Cover: Tree: 60% Shrub: 5% Herb: 10% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. RED MAPLE	T	FAC	9. BUNCH BERRY	H	FAC-
2. STRIPED MAPLE	S	FACU	10.		
3. TILIA grandidentata	T	FACU-	11.		
4. ROUGH STEM GOLDENROD	H	*	12.		
5. [redacted] BEECH	T	FAC	13.		
6. WHORLED ASTER	H	UPL	14.		
7. BRACKEN FERN	H	FACU	15.		
8 RASPBERRY	H	FAC-	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 22%

Remarks:
* NOT OBSERVED

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.): NA
Depth to Free Standing Water in Pit (in.): NA
Depth to Saturated Soil (in.): NA

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):

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 3/4	NONE	—	SILTY 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: AUGER REFUSAL @ 6"

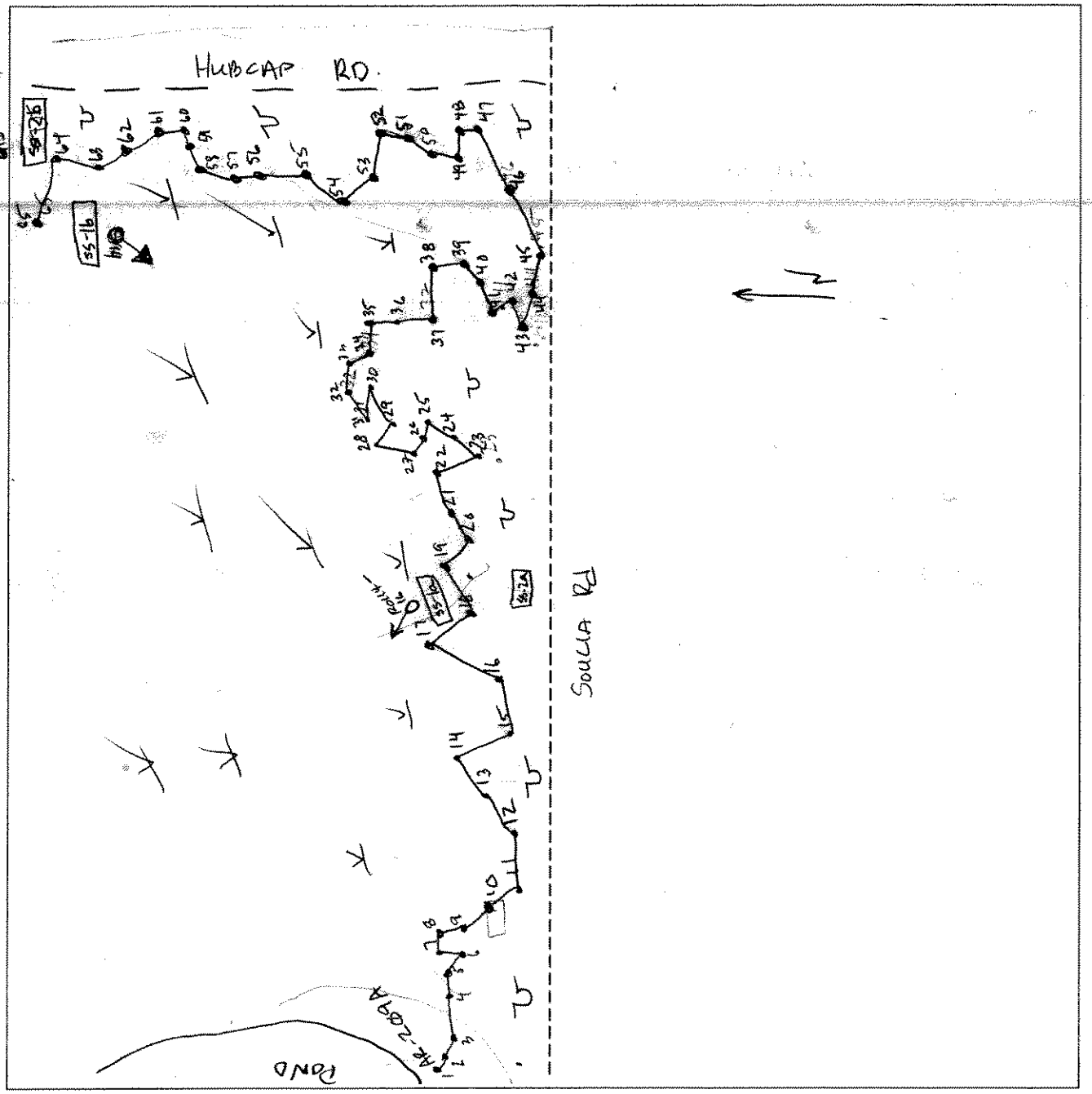
WETLAND DETERMINATION

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 #: AR209A (Soulca & Hubcap Rd)	**Date:** 10.20.05 **Time:** 12:00PM
Intials of Delineators: A.K., JF	**Location:** AR-209A
Roll #: 4 **Frames:** 16, 14, 13	TEAM B



Legend

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

NOT TO SCALE

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

Project Site: Clinton County Applicant/Owner: Hurran Investigator: RTH, AK	Date: 10/19/05 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: WETLAND Transect ID: AR2101 Plot ID: SS1

VEGETATION FERN

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. FLAT TOPPED Aster	H	FACW	9.		
2. Aster - Fern	H	OBL	10.		
3. SENSITIVE FERN	H	FACW	11.		
4. JEWELWEED	H	FACW	12.		
5. TALL Golden Rod	H	FACW	13.		
6. FOWL MEADOW GRASS	H	FACW	14.		
7.			15.		
8			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.):

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:

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.
0-2	O	10YR 2/1	NONE	—	SILT CLAY ORGANIC
2-6	A1	10YR 3/2	10YR 2/1	MANY, LARGE, DISTINCT	CLAY
6-12	A2	10YR 3/1	10YR 6/2	FEW, SMALL, DISTINCT	SANDY CLAY

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ 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: AUGER REFUSAL AT 12"
10" TO WATER

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 Applicant/Owner: Hueston Investigator: RTA, AK	Date: 10/19/05 County: Clinton State: NEW YORK
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: AR210C/D Plot ID: SS2

VEGETATION UPLAND FOREST

Plant Community Classification:
Percent Canopy Cover: Tree: 60% Shrub: 15% Herb: 40% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Sugar Maple	T/S/H	FACU+	9.		
2. Green Ash	S/T/H	FACW	10.		
3. Lined Fern	H	FAC+	11.		
4. Brambles	S	unknown	12.		
5. Canada fern	H	FACW	13.		
6. Club moss	H	FAC	14.		
7. Mtn Alder	S	FAC	15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 57%

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 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):

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	O	10YR 2/1	NONE	—	ORGANIC
1-6	A	10YR [illegible]	10YR 3/3	FEW COARSE DIST	SICL 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: ACCEL REFUSAL @ 6"

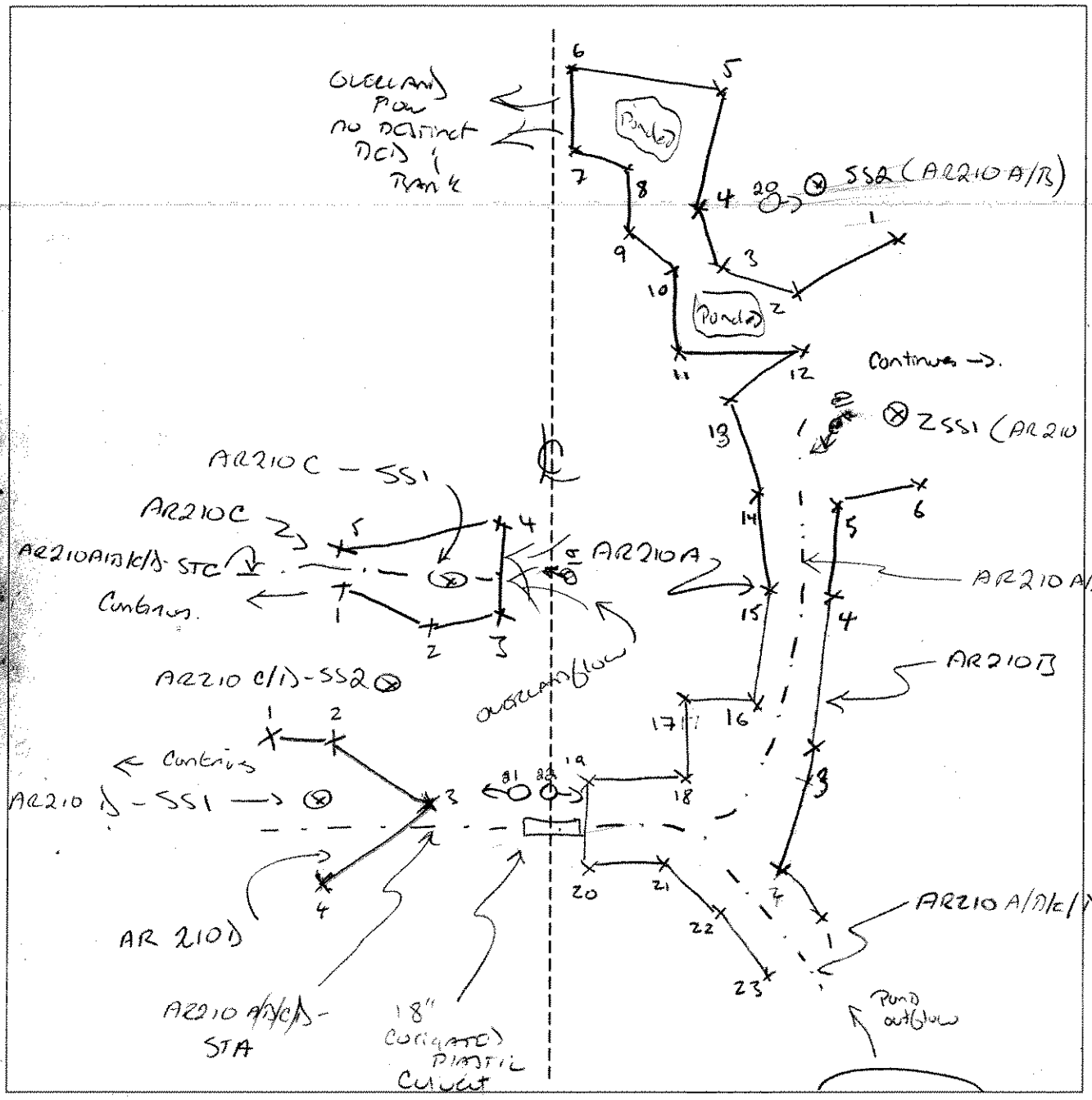
WETLAND DETERMINATION

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 #:	Date: Time:
AR210 A/B/C/D	10/19/05
Intials of Delineators:	**Location:**
CKT, AK	EAST of TERMINUS of
Roll #: **Frames:**	
21, 22, 20, 19, 18, 17	ROAD



Legend

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

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

Project Site: Clinton County Applicant/Owner: Hyatran Investigator: RST	Date: 10/21/05 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: WETLAND 5 Transect ID: AR 212 A Plot ID: S&T

VEGETATION PEM / PSS

Plant Community Classification:

Percent Canopy Cover: Tree: Ø Shrub: 40% Herb: 85% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Bebb willow	S	FACW	9. Typhus	H	FACW+
2. Silver Birch	S	FACW	10.		
3. Red maple	S	FAC	11.		
4. Gray birch	S	FAC	12.		
5. Meadow sweet	S	FAC+	13.		
6. Rattlesnake grass	H	OBL	14.		
7. Carex crinata	H	OBL	15.		
8. Lake-cress Wildrice	H	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.): 6" in pits

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

Depth to Saturated Soil (in.): Ø

Wetland Hydrology Indicators:

Primary Indicators:
- X Inundated
- X Saturated in upper 12 inches
- ___ Water Marks
- ___ Drift lines
- ___ Sediment Deposits
- X 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: AR212A-WL

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	10YR 2/1	—	—	Silty clay loam w/ organic
12+	C	10YR 5/1	2.5YR 4/4	many / coarse / prom	Silty clay loam

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ 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:

Redox at 12"

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 Applicant/Owner: Hueston Investigator: TDS	Date: 10/21/05 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: UPLAND Transect ID: AR212A Plot ID: SS2

VEGETATION UPLAND FOREST

Plant Community Classification:
Percent Canopy Cover: Tree: 80% Shrub: 50% Herb: 50% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Red maple	T/S/H	FAC	9. R. Stonmon Goldenrod	H	FAC
2. Serviceberry	T/S	UPL*	10.		
3. Gray birch	T/S	FAC	11.		
4. Toothed aspen	T	FACU-	12.		
5. Amer. Beech	S	FACU	13.		
6. Rhodora Fern	H	FACU	14.		
7. Club moss	H	FAC	15.		
8 Whorled wood aster	H	UPL*	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 44%

Remarks: * - Not listed

HYDROLOGY

___ Recorded Data (Describe in Remarks):
___ Stream, Lake, or Tide Gauge
X 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 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: recon

AR212A-UPL

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_1	10YR 5/3	10YR 3/6	Com/Mod/Dist.	Silty Clay Loam
6-12	A_2	10YR 3/3	—	—	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:

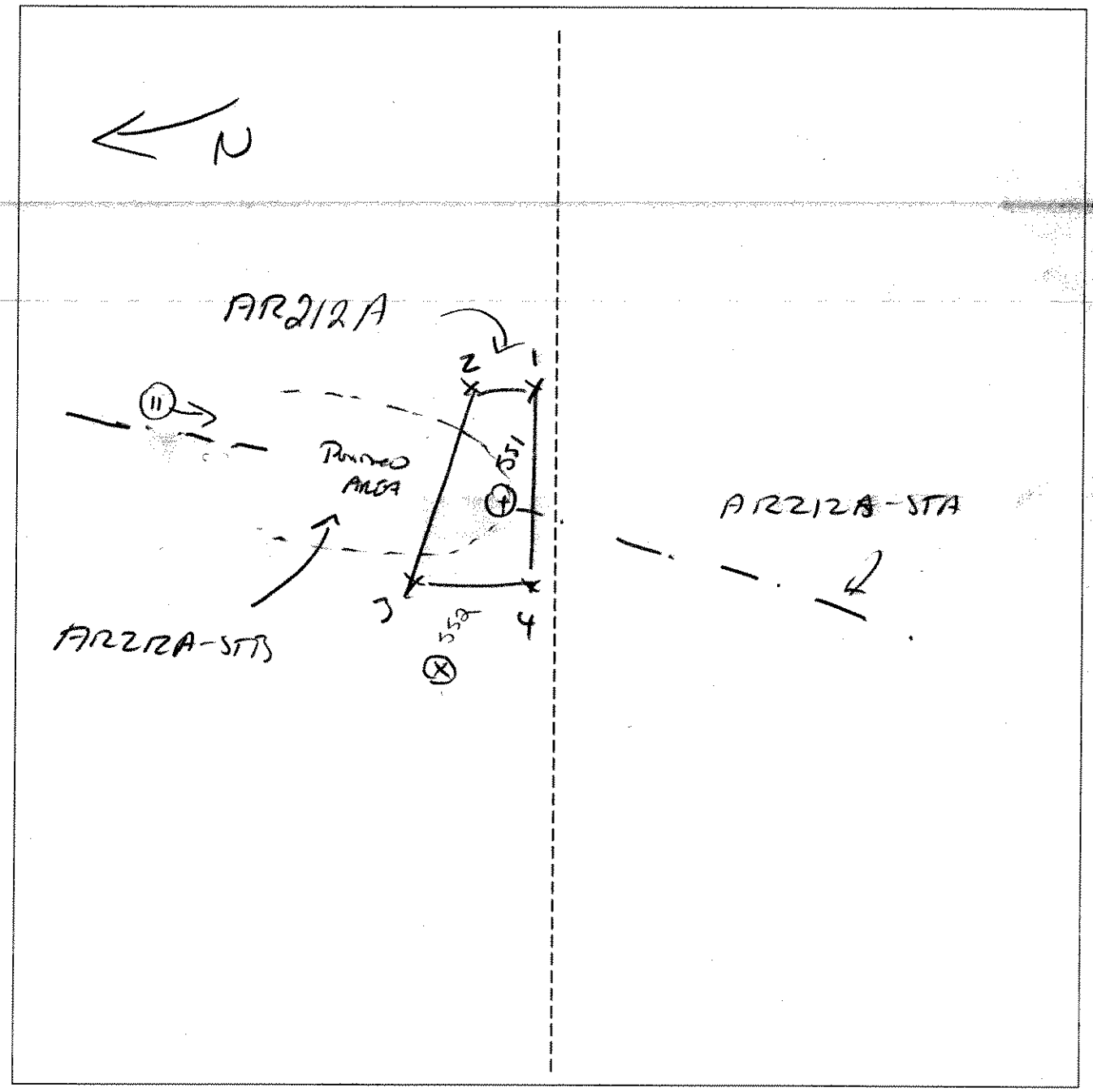
WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(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 #:	Date: Time:
AR212A	10/21/15 0930
Intials of Delineators:	**Location:**
	Marty Lavin's Property
Roll #: **Frames:**	
4 11	



Legend

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

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

Project Site: Clinton County Applicant/Owner: Horizon Investigator: [illegible]	Date: 10/21/05 County: Clinton State: NY
Do Normal Circumstances exist on the site? Yes (circled) No Is the site significantly disturbed (Atypical Situation)? Yes ~~No~~ Is the area a potential Problem Area? Yes No (circled) (If needed, explain on reverse.)	Community ID: Wetland Transect ID: AR213A Plot ID: SS1

VEGETATION PEM / PSS

Plant Community Classification:
Percent Canopy Cover: Tree: 30% Shrub: 20% Herb: 70% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. GRAY BIRCH	T/S	FAC	9. JI Effusus	H	FACW+
2. BEAK Willow	S	FACW	10.		
3. RED maple	S	FAC	11.		
4. CAREX CRINATA	H	OBL	12.		
5. Fin [illegible]	H	FACW	13.		
6. SPAG moss	H	—	14.		
7. R. stemmed Goldenrod	H	FAC	15.		
8 meadow sweet	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.): 8" in places

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

Depth to Saturated Soil (in.): Ø

Wetland Hydrology Indicators:
Primary Indicators:
 X Inundated
 X Saturated in upper 12 inches
 X Water Marks
 ___ Drift lines
 ___ Sediment Deposits
 X 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
 ___ Other (Explain in Remarks)

Remarks:

ID: AR2134-WL

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.
1 – 12"	A	10YR 4/2	2.5YR 3/4	Common/Med/Dist	Silt loam
50/50 mix		10YR 2/1			Silt loam w organics

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ 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:

Reduced Matrix at 12"

Disturbed soil

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 Windfarm Applicant/Owner: Horizon Investigator: JRD	Date: 10/21/05 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: Uplands Transect ID: AR 21 A Plot ID: SS 2

VEGETATION Upland Forest

Plant Community Classification:
Percent Canopy Cover: Tree: 85% Shrub: 40% Herb: 30% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Am. Beech	T/H	FACU	9. Club moss	H	FAC
2. Gray birch	T/S	FAC	10.		
3. Red maple	S/H	FAC	11.		
4. Sugar maple	S/H	FACU-	12.		
5. Serviceberry	S	UPL*	13.		
6. Whorled wood aster	H	UPL*	14.		
7. Christmas Glade Fern	H	FAC	15.		
8 Wood fern	H	FACU+	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 53%

Remarks: * 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.): 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 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: AR213A-WL

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 3/3	—	—	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

			(Circle)	(Circle)
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
			Is this an Isolated Wetland?	Yes No

Remarks

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

Project Site: Clinton County Wind Farm Applicant/Owner: Horizon Investigator: AR		Date: 10/21/05 County: Clinton State: NY
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.)	Yes No Yes No Yes No	Community ID: Transect ID: AR2/3 B/C Plot ID: SS2

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 50% Shrub: 35% Herb: 40% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Gray birch	T/S	FAC	9.		
2. Blk cherry	T	FACU	10.		
3. Red maple	T/S	FAC	11.		
4. Wood fern	H	FACU	12.		
5. Whorled wood aster	H	UPL*	13.		
6. R-L Goldenrod	H	FAC	14.		
7. Club moss	H	FAC	15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 71%

Remarks:
* 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.): 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 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: AR213WL

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.
1-10	A	10YR 3/3	—	—	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)
		Is this an Isolated Wetland?	Yes (No)

Remarks

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

Project Site: Clinton County Wind Farm Applicant/Owner: Horizon Investigator: TDT	Date: 10/21/05 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: Wetland Transect ID: AR2 ISB Plot ID: SG1

VEGETATION

PEM / PFO

Plant Community Classification:
Percent Canopy Cover: Tree: 25% Shrub: 10/5 Herb: 85% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Gray birch	T/S	FAC	9.		
2. CAREX CRINATA	H	OBL	10.		
3. R.S. Goldenrod	H	FAC	11.		
4. SPHAGNUM MOSS	H	—	12.		
5. MEADOW SWEET	S	FACW	13.		
6. RED MAPLE	T/S	FAC	14.		
7. YELLOW BIRCH	T	FAC	15.		
8			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.): 8" in pools

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

Depth to Saturated Soil (in.): 0

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

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

Remarks:

ID: AR243B

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	10YR2.1	- -	—	SILT LOAM

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ 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:

REFUSAL AT AUGER AT 6". FEW OXIDIZED RHYSOSPHERES

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 / ~~Ellenburg~~ Applicant/Owner: Horizon Renewable Energy Investigator: TAL	Date: 10/21/05 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: WETLAND Transect ID: AR13C Plot ID: 551

VEGETATION Pern w/ some shrub species

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

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Bebb willow	S	FACW	9.		
2. Gray birch	S	FAC	10.		
3. Purple stemmed Aster	H	OBL	11.		
4. Carex crinata	H	OBL	12.		
5. Sensitive fern	H	FAC	13.		
6. Lance-leaved goldenrod	H	FAC	14.		
7. Meadowsweet	S	FACW	15.		
8. Lance leaved Goldenrod	H	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.): 12" in places

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

Depth to Saturated Soil (in.): 0

Wetland Hydrology Indicators:
Primary Indicators:
- X Inundated
- X Saturated in upper 12 inches
- X 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:

AR 213C

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 2/1	—	—	SIL LOAM W/ ORGANICS
4-8	B	10YR 4/2	—	—	SILTY CLAY

Hydro Soil Indicators

___ Histosol
___ Histic Epipedon
___ Sulfidic Odor
___ 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:

REFUSAL OF AUGER @ 8"

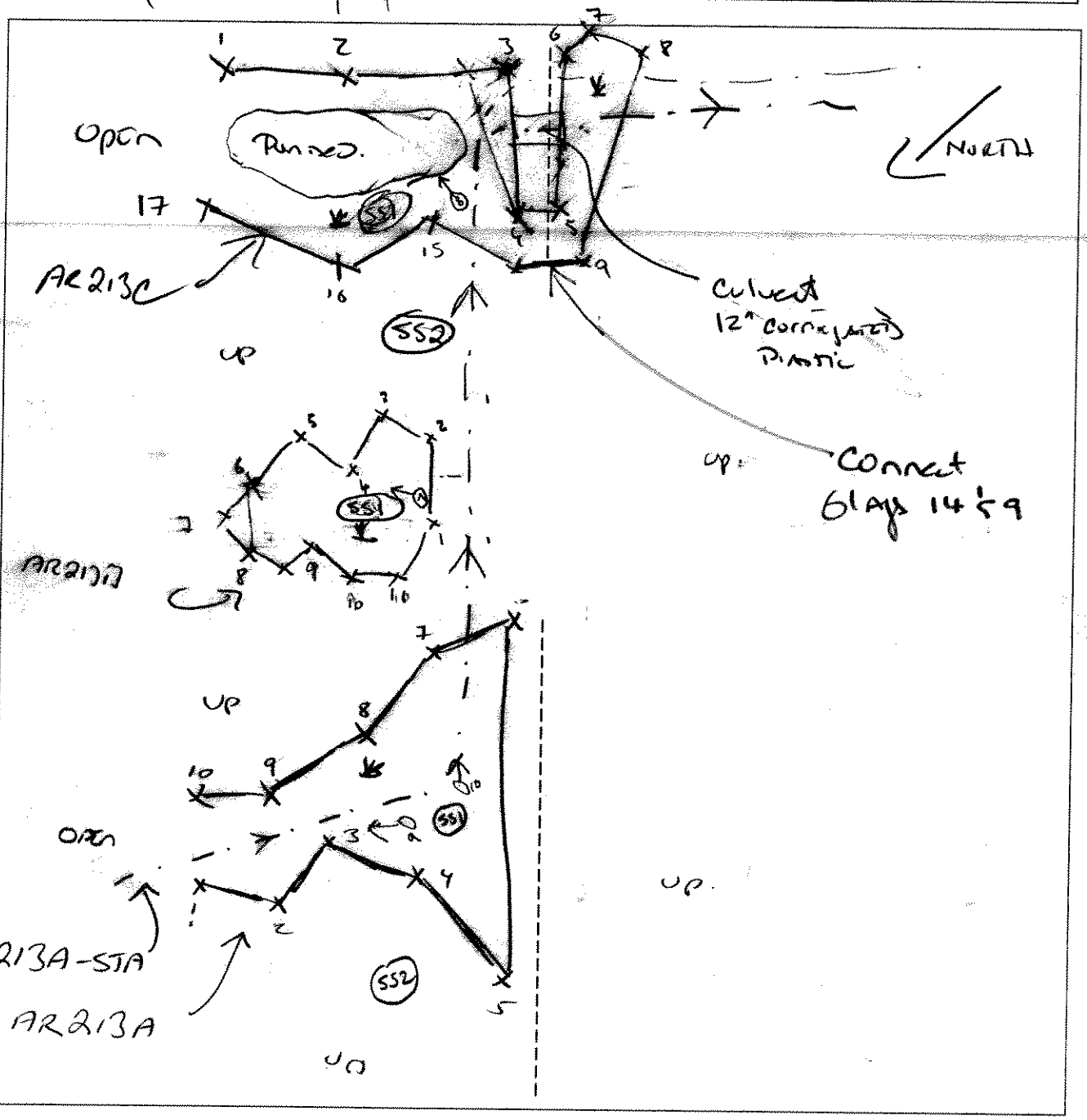
WETLAND DETERMINATION

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

SKETCH FORM

Wetland ID/Route #: AR213A/B/C	**Date:** 10/21/08 **Time:** 1030
Intials of Delineators: KTS	**Location:** MARTIN LAUN's property
Roll #: 4 **Frames:** 9,10,8	



Legend

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

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

Project Site: Clinton County Windfarm Applicant/Owner: Horizon Investigator: (TCN)	Date: 10/21/05 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: Wetland Transect ID: ARQ14A Plot ID: 55'

VEGETATION PSS.

Plant Community Classification:
Percent Canopy Cover: Tree: Ø Shrub: 70% Herb: 80% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Beak willow	S	FACW+	9.		
2. Silky willow	S	OBL	10.		
3. Tall Goldenrod	H	FACU-	11.		
4. J. E[illegible]	H	FACW+	12.		
5. Flat topped Aster	H	FACW	13.		
6. meadow sweet	S	FAC+	14.		
7. Fowl meadow grass	H	FACW	15.		
8 Small white Aster	H	FAC	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 88%

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.): >10"

Depth to Saturated Soil (in.): Ø

Wetland Hydrology Indicators:
Primary Indicators:
 ___ Inundated
 _X_ 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: AR214A-WL

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.
0-10	A	10YR 4/2	—	—	Sandy loam

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	(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 Applicant/Owner: ~~Horizon~~ Investigator: TOM	Date: 10/21/05 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: UPLAND Transect ID: AR014A Plot ID: 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: Data identical to AR213B/C

SS2

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:

ID: JR3164-UPL

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.

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:

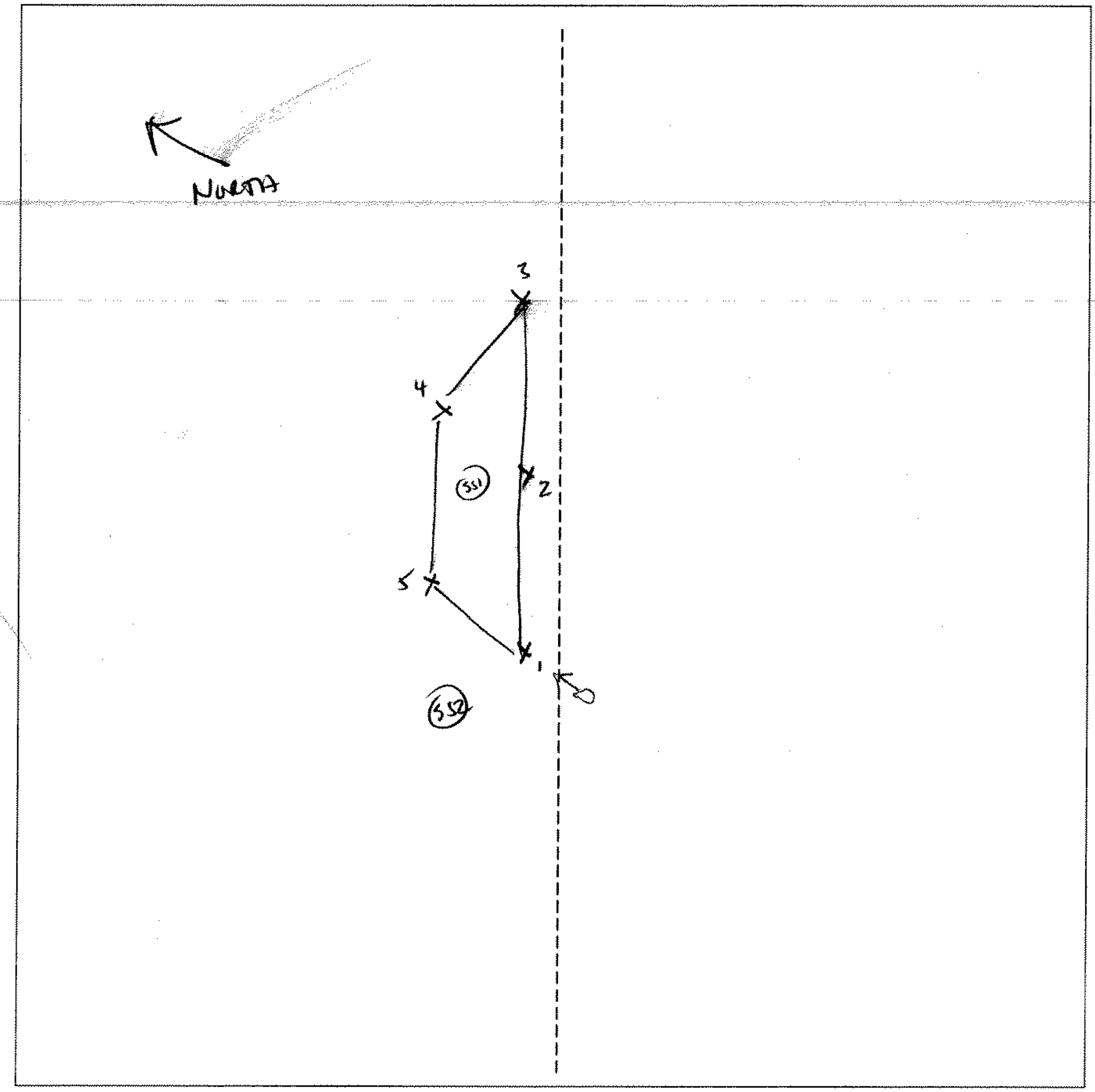
WETLAND DETERMINATION

			(Circle)	(Circle)
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
			Is this an Isolated Wetland?	Yes No

Remarks

SKETCH FORM

Wetland ID/Route #: AR214 A	**Date:** 10/21/05 **Time:** 1440
Intials of Delineators: JRH	**Location:** MARTY LAVIN'S PROPERTY
Roll #: 4 **Frames:** 7	



Legend

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

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

Project Site: Clinton County [illegible] Applicant/Owner: [illegible] Investigator: RTD, KH	Date: 10/24/05 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: Wetland Transect ID: AR 218 A/B Plot ID: 551

VEGETATION PEM

Plant Community Classification:
Percent Canopy Cover: Tree: Ø Shrub: 5% Herb: 100% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Gray birch	S	FAC	9. Canary reed GR	H	FAC
2. Rattlesnake grass	H	OBL	10. Sphag moss	H	—
3. Boneset	H	FACW+	11.		
4. Carex crinita	H	OBL	12.		
5. Flat topped aster	H	FACW	13.		
6. Steeple bush	S	FACW	14.		
7. Juncus effusus	H	FACW+	15.		
8. R.S. Goldenrod	H	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	Wetland Hydrology Indicators: Primary Indicators: X Inundated X Saturated in upper 12 inches ___ Water Marks ___ Drift lines ___ Sediment Deposits X Drainage Patterns In Wetlands
Field Observations: Depth of Surface Water (in.): 8" in places Depth to Free Standing Water in Pit (in.): Ø Depth to Saturated Soil (in.): Ø	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:

UCT

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 3/1	—	—	Sandy loam

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:

Refusal @ Agg @ 6"

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 Windfarm Applicant/Owner: Horizon Investigator: RMS KH	Date: 10/24/05 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: Upland Transect ID: AE218A1B Plot ID: 552

VEGETATION Access Rd. (upper mid-successional)

Plant Community Classification:
Percent Canopy Cover: Tree: Ø Shrub: 40% Herb: 90% Vine: Ø

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Gray birch	S	FAC	9.		
2. Club moss	H	FAC	10.		
3. R. J. Goldenrod	H	FAC	11.		
4. Bracken Fern	H	FACU	12.		
5. Brambles	S	FACU-	13.		
6. Steeple bush	S	FACW	14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 66%

Remarks:

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
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	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:

UP

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 4/2	—	—	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: Disturbed Area bd.

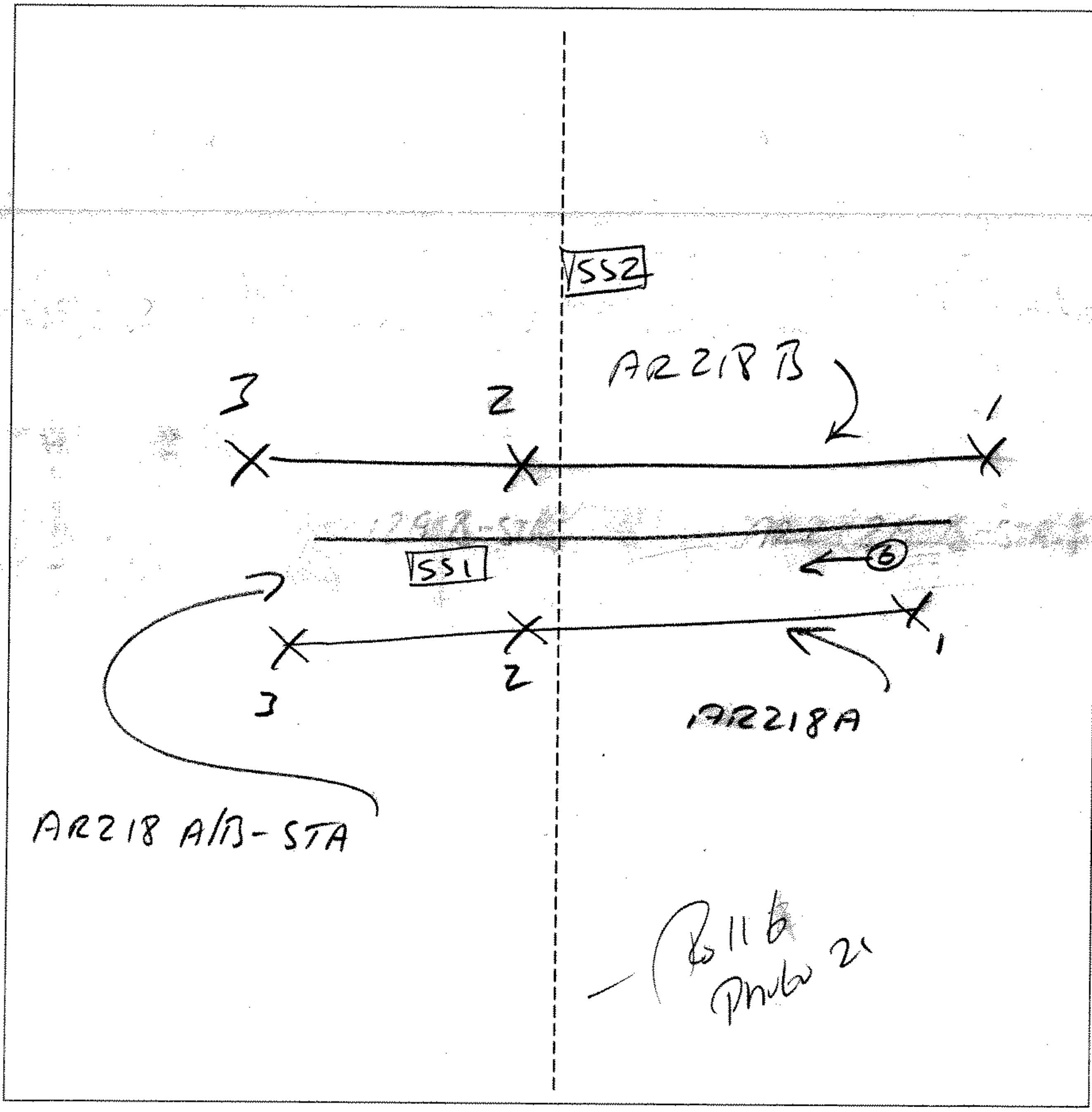
WETLAND DETERMINATION

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

SKETCH FORM

Wetland ID/Route #: AR218 A/B	Date: 10/24/05 Time: 1150
Intials of Delineators: [illegible] KH	Location: Hubcap Rd. Malcom Lavin's property
Roll #: Frames:	



Legend

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

AR218B EXTENSION

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: JV AP	Date: 5/10/07 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: AR218B Transect ID: AR947A SS1 Plot ID: PF01

VEGETATION

Plant Community Classification:
Percent Canopy Cover: Tree: 100 Shrub: 30 Herb: 60 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Hawthorn	T	FAC	9.		
2. Acer rubrum	S	FAC	10.		
3. Ash sp	Sap	—	11.		
4. Amaranthemum canadense	H		12.		
5. Sphagnum moss >50%	H	OBL	13.		
6. Onychium Americanum	H	FAC	14.		
7.			15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 75%

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.): NA

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

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

Remarks:

Date: 5/10/07
Community ID: wetland 551
Plot ID: AR218B
AR947A 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	O	10YR 2/1			SILT
4-12	A	10YR 2/2	7.5YR 3/4	faint, common, fine	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", saturation @ 0", water in pit @ 6"

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 mapped NWI wl

9 = E

area has been disturbed. Pits throughout 551.

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: JV NP	Date: 5/10/07 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: WP Transect ID: Plot ID: AR216A SS2 AR947A

VEGETATION

Plant Community Classification: Mixed deciduous
Percent Canopy Cover: Tree: 75 Shrub: 80 Herb: 05 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Gray birch	T	FAC	9.		
2. Red maple	T	FAC	10.		
3. Sug maple	S	FAC	11.		
4. hobble bush	S	FACU	12.		
5. Maianthemum canadense	H	FAC	13.		
6. Whorled wood aster	H	FAC	14.		
7. Erythronium americanum	H	FAC	15.		
8			16.		

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

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.):

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: 5/10/07
Community ID: UPL
Plot ID: AR821 A 882
AR947 A

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 2/1			sandy clay loam
4-12	A	7.5YR 5/2	7.5YR 3/1	faint, few, fine	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: soil sandy & dry, crumbles easily

WETLAND DETERMINATION

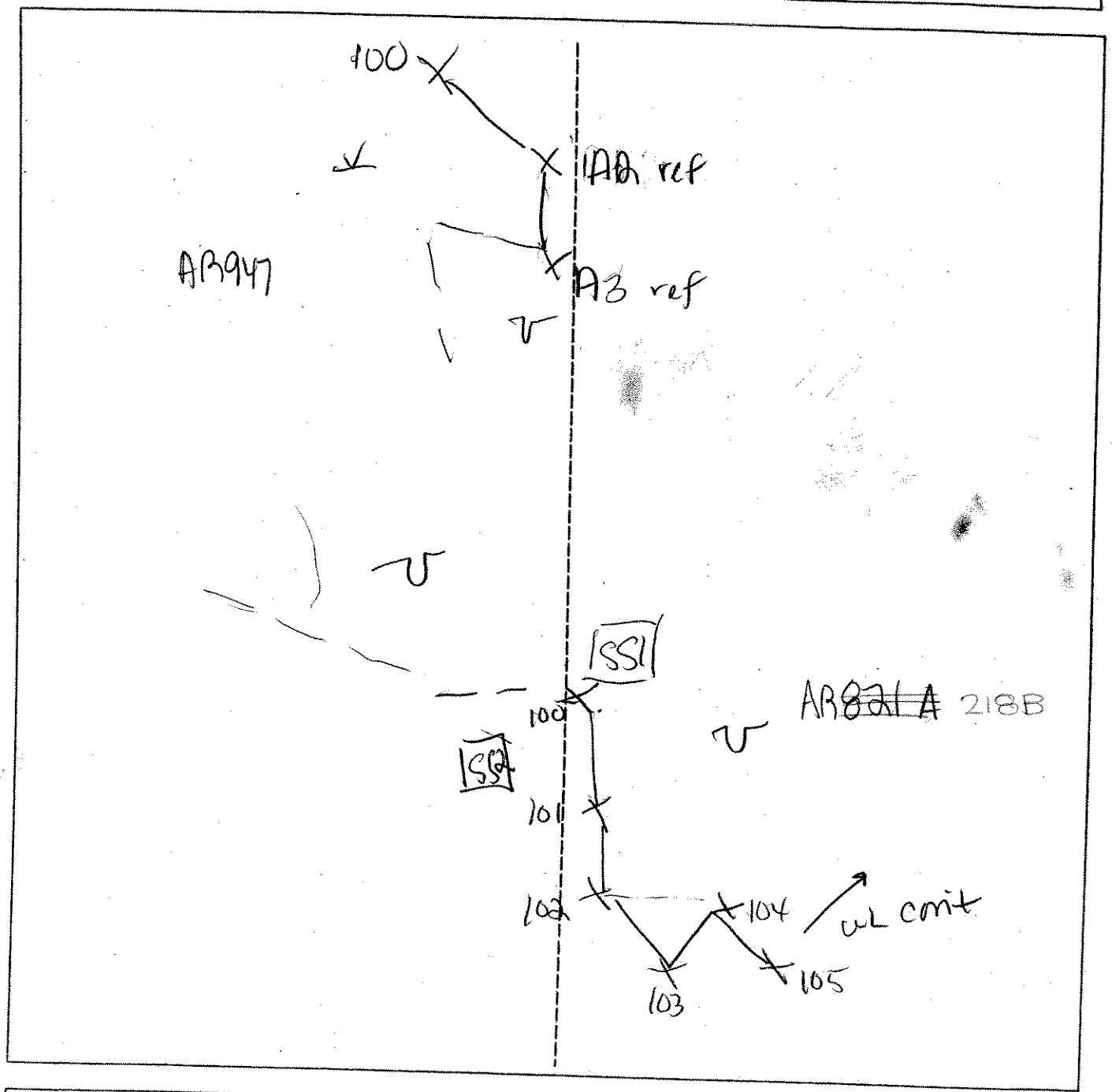
Hydrophytic Vegetation Present? Yes (No)
Wetlands Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

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

Remarks

SKETCH FORM

Wetland ID/Route #: AR218B + AR947A	**Date:** 5/10/07 **Time:**
Intials of Delineators: JV AP	**Location:** T.106
Roll #: **Frames:**	



Legend

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

Line Extension

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: [illegible]	Date: 5/24/17 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: AR2 & A13 Plot ID: SS4

VEGETATION Upland Deciduous Forest

Plant Community Classification:
Percent Canopy Cover: Tree: 85% Shrub: 35% Herb: 35% Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Bracken Fern	H	FACU	9. Lance Shaped	H	
2. Aralia Lilly	H	FAC-	10. (shown?)		
3. Club moss	H	FAC	11.		
4. Red maple	T/S	FAC	12.		
5. Striped maple	S	FACU	13.		
6. Beech Tree	T/S	FACU	14.		
7. Wood Fern	H	FACU	15.		
8 Gray birch	T/S	FAC	16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/12 = 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.): 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):
- X Oxidized Root Channels in Upper 12 inches
- ___ Water-Stained Leaves (few)
- ___ Local Soil survey Data
- ___ FAC-Neutral Test
- ___ Other (Explain in Remarks)

Remarks:

Date: 5/24/07
Community ID: UPLAND
Plot ID: AR218 A/B-SS4

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	10YR2/2	—	—	ORGANICS
4-18	A	7.5YR2.5/2	—	—	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

Line extension

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: KAD	Date: 5/24/07 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: AR218A13 Plot ID: SS3

VEGETATION PEM Associated w/ int. stream

Plant Community Classification:
Percent Canopy Cover: Tree: 0 Shrub: 25 Herb: 90 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Red Maple	S	FAC	9.		
2. Meadowsweet	S	FAC+	10.		
3. Aster sp.	H		11.		
4. Sphagnum	H	OBL	12.		
5. Rubus sp.	H		13.		
6. Sensitive fern	H	FACW	14.		
7. Wood fern	H	FACU	15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 4/7 = 57%.

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.): 4" in places

Depth to Free Standing Water in Pit (in.): 8"

Depth to Saturated Soil (in.): 0"

Wetland Hydrology Indicators:
Primary Indicators:
- X 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: 5/24/07
Community ID: wetland
Plot ID: NE218A13-553

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.
* 0-8"	A	10YR 4/1	—	—	Silty clay loam **

Hydro Soil Indicators

- ___ Histosol
- ___ Histic Epipedon
- X 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:
* Refusal at Auger at 8"
** w/ organics

WETLAND DETERMINATION

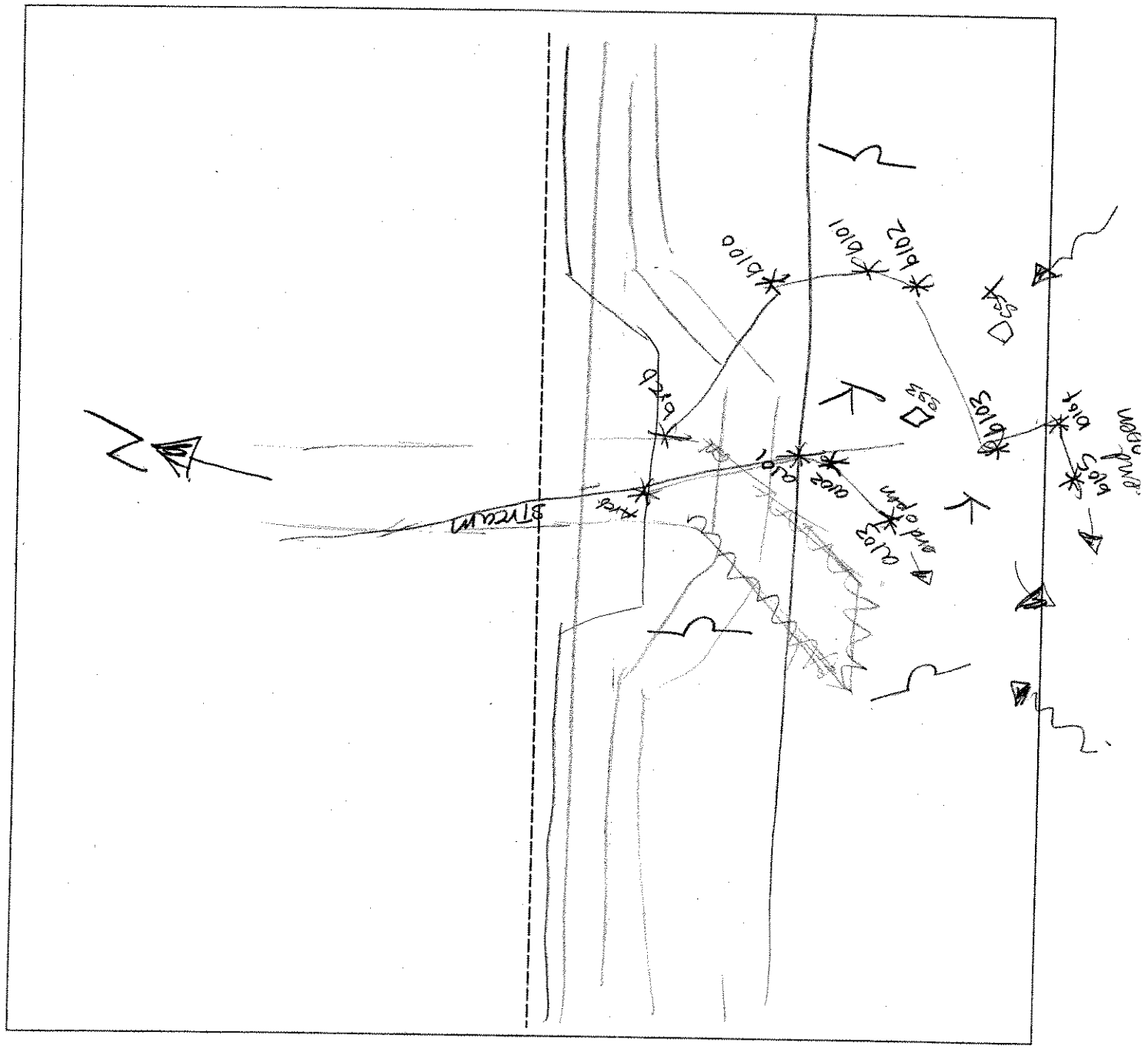
Hydrophytic Vegetation Present?	Yes	No
Wetlands Hydrology Present?	Yes	No
Hydric Soils Present?	Yes	No

Is this Sample Station Point Within a Wetland? Yes No

Remarks

SKETCH FORM

Wetland ID/Route #: AR218 A/B	Date: 5/24/07 Time:
Intials of Delineators: RD AP	Location:
Roll #: Frames:	



Legend

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

WETLAND: AR360-A

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: RD JV	Date: 10/26/06 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: PFO4 Transect ID: Plot ID: AR350-A/B-WSS

VEGETATION

Plant Community Classification: PFO1
Percent Canopy Cover: Tree: 75 Shrub: 5-10 Herb: 75 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. A. rubrum	T	FAC	9. Aster sp	H	—
2. A. rubrum	S	FAC	10. Onoclea sensibilis	H	FACW
3. Spirea latifolia	H	FAC+	11.		
4. Equisetum	H	OBL	12.		
5. Carex sp	H	—	13.		
6. Salix sp	H	—	14.		
7. J. effusus	H	FACW	15.		
8 Solidago sp	H	—	16.		

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

Remarks:
Ulmus

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other X No Recorded Data Available	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 ___ Water-Stained Leaves ___ Local Soil survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
Field Observations: Depth of Surface Water (in.): NA Depth to Free Standing Water in Pit (in.): 0" Depth to Saturated Soil (in.): 0"	

Remarks: Hydro observed to W and S.

Date: 10/26/06
Community ID: PFOW
Plot ID: AR350-A/P4-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 4/1	5YR 4/6	few/med/prom	Silty Clay
4-8	B_1	10YR 5/2	10YR 4/6	comm/med/dist	Clay w/sand
8-18	B_2	10YR 5/2	10YR 5/6	many/med/dist	Clay

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

=> S

WETLAND: AR360-A

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: RD JV	Date: 10/26/06 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 Transect ID: Plot ID: AR360-A/B-SS2

VEGETATION

Plant Community Classification: Mid successional roadside
Percent Canopy Cover: Tree: 0 Shrub: 50 Herb: 25 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. A. rubrum	S	FAC	9.		
2. Alnus rugosa	S	FACW	10.		
3. A. balsamea	S	FAC	11.		
4. Spirea latifolia	S	FAC+	12.		
5. Rubus sp	S	+	13.		
6. Solidago sp	H	—	14.		
7. Woodwardia	H	—	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: 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:

Date: 10/26/06
Community ID: UPL
Plot ID: AR350-A/B-552

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 3/1			Silt loam
4-8	B_1	10YR 3/2			Silt clay loam
8-18	B_2	10YR 4/3			Silt 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

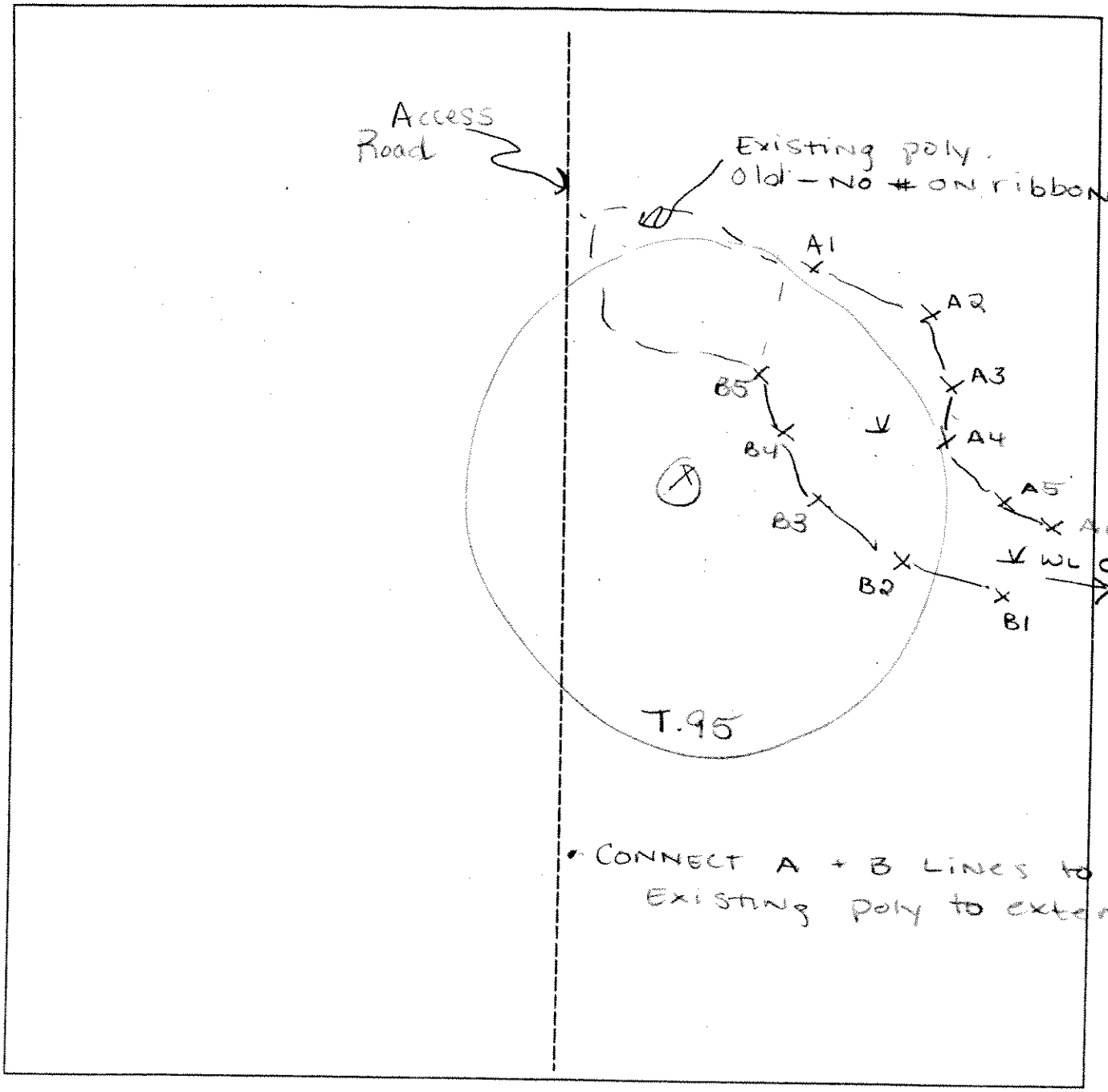
Hydrophytic Vegetation Present? (Yes) No
Wetlands Hydrology Present? Yes (No)
Hydric Soils Present? Yes (No)

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

Remarks

SKETCH FORM

Wetland ID/Route #: AR370 A/B	**Date:** 12/20/06 **Time:** 1600
Intials of Delineators: RD JV	**Location:** T. 95
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)

LINE EXTENSION

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: JV AP	Date: 5/3/07 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: PF04 Transect ID: Plot ID: AR370 A SS1

VEGETATION

Plant Community Classification: Spruce/Fir
Percent Canopy Cover: Tree: Shrub: Herb: Vine:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Abies balsamae	T	FAC	9.		
2.			10.		
3. *Alnus rugosa	S	FACW+	11.		
4. Spirea tomentosa	S	FACW	12.		
5. Salix Fabbriana	S	FACW	13.		
6.			14.		
7.			15.		
8			16.		

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

Remarks: Plant species listed not by dominance. Identified plant presence by stumps and twigs with leaflets.

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.): 1" in spots

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

Depth to Saturated Soil (in.): 0"

Wetland Hydrology Indicators:
Primary Indicators:
X Inundated in spots
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
___ Water-Stained Leaves
___ Local Soil survey Data
___ FAC-Neutral Test
___ Other (Explain in Remarks)

Remarks: Area has recently (w/i months) been logged. Hydrology is still influenced by topography. Field drains to SE into delineated area which discharges down very steep grades approx. 250' from last delineated point.

Date: 5/3/07
Community ID: PF04
Plot ID: AR370-A-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.
0-2	O	5YR 2.5/1	-	-	silty
2-10	A	5YR 3/1	-	-	silty 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
Wetlands Hydrology Present? (Yes) No
Hydric Soils Present? (Yes) No

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

Remarks
Wetland drains SE. General site topography exists/not influenced by logging.

Flushed Flicker from nest.

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

Project Site: Marble River Applicant/Owner: Marble River, LLC Investigator: JV AP	Date: 5/3/07 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 Transect ID: Plot ID: AR370 A 552

VEGETATION

EXT

Plant Community Classification:
Percent Canopy Cover: Tree: 25% Shrub: 15% Herb: 100 Vine: 0

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.			9.		
2. Betula papyrifera	T	FAC	10.		
3. Abies balsamae	T	FAC	11.		
4. Hieracium sp	H	UPL	12.		
5. Rubus sp	H	UPL	13.		
6. Aster sp.	H	—	14.		
7. Ranunculus	H	FAC	15.		
8			16.		

Percent of dominant Species that are OBL, FACW, or FAC (excluding FAC-): 50%

Remarks:

HYDROLOGY

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

Field Observations: NA

Depth of Surface Water (in.):

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

Depth to Saturated Soil (in.):

Wetland Hydrology Indicators: NA
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: 3 May 07
Community ID: PP04
Plot ID: AR 370-ASS2

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	5YR 2.5/2			silt loam
2-14	A	5YR 3/2	7.5YR 4/2	common/med/Dist.	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
Wetlands Hydrology Present? (Yes) No
Hydric Soils Present? Yes (No)

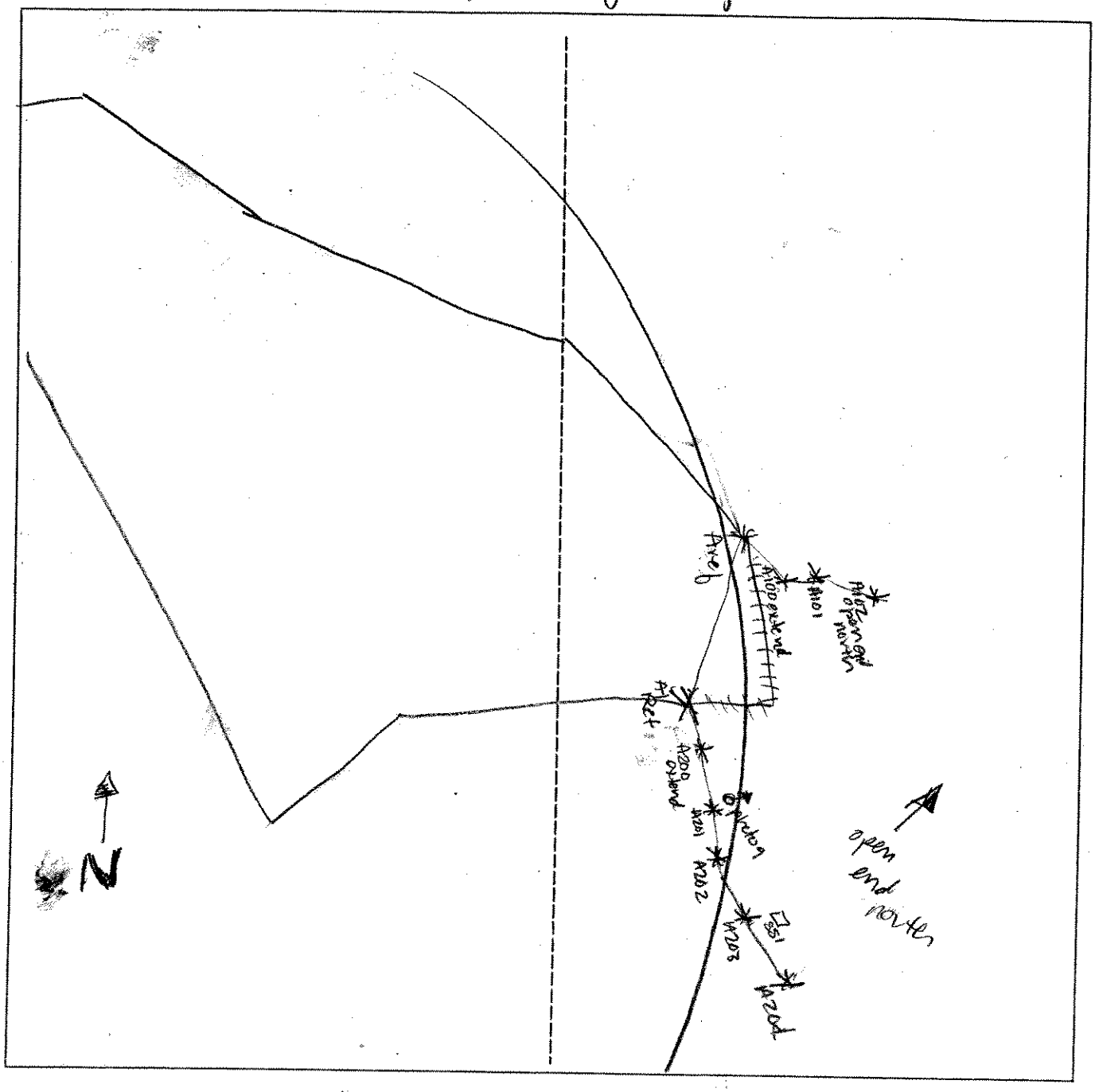
Is this Sample Station Point Within a Wetland? Yes (No)

Remarks

Flicker flushed from nest flapping around site

SKETCH FORM

Wetland ID/Route #: AR370-A EXT	Date: 3May07 Time:
Intials of Delineators: JV & AP	Location: AR370-A
Roll #: Frames:	Photo 9 by A201 facing East



Legend

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