

Wetlands Delineation Report Seneca Army Depot Romulus, New York S7017

Prepared for:

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and



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November 1999

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1.0 INTRODUCTION

The Seneca Army Depot is an approximately 10,600 acre military installation located in Seneca County, New York.

As part of the proposed reuse plan, an approximately 760 acre parcel will be designated for public use for conservation and recreation. It is within this conservation/recreation area that the wetland delineation was performed. The Site Location Map (Figure 1) shows the location and regional setting of the site.

1.1 PURPOSE AND SCOPE

Earth Tech Inc. (Earth Tech) conducted a wetland delineation for the New York State Office of General Services (OGS) in selected areas within the Seneca Army Depot. The Earth Tech field investigation was conducted throughout the month of August 1999 and was completed on August 27, 1999. Personnel from The Office of General Services also conducted wetland delineations during approximately the same time period in adjacent areas. The area of the wetland delineations within the Seneca Army Depot property performed by both Earth Tech and OGS are indicated in Figure 2. The wetland delineation maps are depicted in Plates 1, 1A, 1B and 1C.

The intent of this wetland investigation was to delineate the boundaries of wetlands that may be affected by the proposed reuse plan. If the proposed site activities are modified so that other wetland areas may be affected, delineation of additional wetlands may be required.

The delineation was performed as outlined in the U. S. Army Corps of Engineers (ACOE) Wetland Delineation Manual (ACOE Environmental Laboratory, 1987). This report will be used to assess the extent of wetlands pursuant to the reference mentioned above and delineated with reference to the Freshwater Wetlands Act of Article 24 of the New York State Environmental Conservation Law. It will also be used in support of any necessary wetland permit applications that may be required based on proposed reuse activities.

1.2 SITE DESCRIPTION

The Seneca Army Depot is located on the eastern side of Seneca Lake and is within the Seneca Lake drainage basin. The parcel lies just west of the drainage divide between Seneca and Cayuga Lakes (Figure 1). The location of the wetland delineations performed by Earth Tech and OGS are within the Army Depot and are shown in Figure 2. The U. S. Army has occupied the lands of the Seneca Army Depot since 1941. Previous to the establishment of the Depot, the area consisted of abandoned agricultural fields and the area has undergone initial old-field successional changes (Appendix A, Photograph #1). There are no lakes or perennial streams present within the delineation area. However, there is a large pond area in the northern part of the site. Intermittent waterways, channelized stream beds and drainage swales extend throughout the site. Cleared zones of vegetation are maintained by mowing fire roads through the site and cleared zones for electrical transmission lines are also maintained within the site.

The area of the wetland delineation is bordered by East Patrol Road on the East, Fayette Road on the West, the main entrance road on the South and an unpaved access road on the north (See Plates 1, 1A and 1C). The topography of the area is relatively flat (Appendix A Photograph #1); it gently slopes from a high point of approximately 712 feet above sea level in the southeast corner to an elevation of approximately 675 feet in the northwest corner, about 12,000 feet away. (Figure 2 and Plates 1, 1A, 1B and 1C).

1.3 EXISTING MAPPED WETLANDS

The NYSDEC has formally delineated wetlands at the site. These wetland areas consist of Wetlands RO-19, RO-20 and RO-21. NYSDEC Regulated Wetlands are shown in Figure 4. Wetlands RO-19 and RO-21 have been rated as "Class 2" and wetland RO-20 has been rated as "Class 3" pursuant to the NYS wetland rating system (9 NYCCR 578.5(d)). This value rating system ranges from Class 1 to Class 4, with 1 being "highest overall worth" and 4 being the "lowest overall worth."

The United States Fish and Wildlife Service (USFWS), through the National Wetland Inventory (NWI), has also formally delineated wetland areas at this site. The NWI mapped wetlands are shown in Figure 5.

2.0 METHODS

This site was evaluated using the "Routine Method" outlined in the Army Corps of Engineers Delineation Manual (ACOE, Environmental Laboratory, 1987). The following references were also considered, where appropriate: U. S. Soil Conservation Service Soil Survey of Seneca County (USDASCS, 1976), The National List of Plant Species That Occur in Wetlands (Reed, 1988), and the U.S.G.S. Quadrangle map for Seneca, NY (USGS, 1971), Ecological Communities of New York State (New York Natural Heritage Program, NYSDEC1990).

Wetland boundaries were established by following the topography/vegetation between wetland areas and upland areas. The wetland boundary was marked by sequentially numbered pieces of surveyors tape. After the wetland boundary was established, each sequential boundary point was plotted using a Trimble Pathfinder Pro XRS/DGPS mobile Global Positioning System (GPS) receiver. The plotted points were then incorporated into a digital map of the site to develop the wetland map (Plate 1A).

Wetland and upland data points were collected along the wetland boundary at approximately 1000 foot intervals. At each data point, information on hydrology, soils and vegetation were documented and a Routine Wetland Determination Data Form was completed. If a wetland determination was made for a data point, it was designated as a "W" point. The data point locations were also numbered sequentially and specified for each wetland area. A data point was designated as wetland if it exhibited all three wetland characteristics; hydric soils, wetland hydrology and wetland vegetation. Upland data points were indicated using a "U". For example, in Wetland Area "A", typical wetland and upland data points would be labeled "A-W-1" and "A-U-1" respectively. Wetland delineation data forms are provided in Appendix B and the wetland boundary, with data point locations, is depicted in Plates 1A, 1B and 1C.

The vegetation data at each data point was collected by making visual quantitative estimates of the dominant plant species in each vegetation layer (tree, sapling/shrub, woody vine and herbaceous). The tree dominance evaluation was based on basal area, the sapling/shrub on greatest height and the herbaceous understory where it existed, on greatest areal coverage.

Evaluation of hydrology was performed by digging with a narrow spade to a depth of approximately 14 inches and inspecting the boring for indications of saturated soil, standing water in the bottom of the pit or water flowing into the side of the pit. Other indicators of wetland hydrology include water marks on woody vegetation, sediment deposits, drift lines and wetland drainage patterns.

Soils in the upper 12 inches of the boring were evaluated with respect to the hydric soil criteria presented in the 1987 manual. This included determining if the soils were mottled, exhibited low matrix chroma, were gleyed, exhibited iron or manganese concretions or oxidized root channels. The soils were also described in terms of color, texture and structure.

3.0 RESULTS AND DISCUSSION

A total of seven (7) wetland areas were identified within the delineation limits. These areas, which are labeled Wetlands "A" through "M" (excluding "D"), are depicted on the wetland delineation maps. In general, the wetland areas at the site consisted of Open or Forested Mineral Soil Wetlands (NYSDEC Ecological Communities Classification), with the major communities alternating between open shallow emergent marsh and floodplain forest areas. Typically, the wetlands formed in the lower lying areas of the sapling/shrub meadows (Appendix A, Photograph #2) or floodplain forests along the channeled creek beds (Appendix A, Photograph #3). In some cases the wetland areas were connected to each other through hummocky channels or narrow, intermittent waterways. Upland areas on the site consist mostly of successional shrubland or successional old fields in the open areas and successional southern hardwoods in the forested areas (Appendix A, Photograph #5). The wetland delineations performed at the site were characterized by wide transition zones between wetland areas and uplands, particularly with respect to vegetation indicators (Appendix A, Photograph #6). In some cases the delineated wetland areas extend across the mowed fire roads and cleared zones. At several locations the wetland areas most likely extended beyond the limits of the delineation.

3.1 VEGETATION

The herbaceous vegetation within the wetlands on the site included Cattails (*Typha latifolia*), Purple Loosestrife (*Lythrum salicaria*), Fowl Meadow Grass (*Glyceria striata*), Canada Rush (*Juncus canadensis*), Fringed Sedge (*Carex crinita*), Tall Goldenrod, (*Solidago altissima*) and Cardinal Flower (*Lobelia cardinalis*) (Appendix A, Photgraph #6).

In the shrub layer, Silky Dogwood (Cornus amomum), Red-osier Dogwood (C. stolonifera), Nannyberry (Viburnum lentago), Northern Arrow-wood (V. recognitum), Black Willow (Salix nigra) and Hawthorn (Crataegus sp) were all observed. Observed saplings at the site included Green Ash (Fraxinus pennsylvanicum), Silver Maple (Acer saccharinum) and Slippery Elm (Ulmus rubra). The tree overstory included Green Ash, Slippery Elm, Cottonwood (Populus deltoides) and White Swamp-Oak (Quercus bicolor).

3.2 HYDROLOGY

The wetland delineation was conducted under significant drought conditions and in many cases inundated or saturated conditions were not observed. In these cases, other hydrological indicators, such as drainage patterns in wetlands, drift lines or oxidized root channels were utilized to establish wetland data points (Appendix A, Photograph #4).

The wetlands on this site are primarily created within one hydrologic regime. The major setting is a shallow, somewhat flat-lying emergent marsh or forested wetland that is primarily fed by surface water runoff. The saturated and standing water is due to the poorly drained soils present in the region. Water periodically fills or saturates the channeled stream beds via surface runoff, overflows the stream banks and infiltrates the low lying areas. The slight topographical grade and poorly drained soils allow the water to remain in these areas and create interspersed hummocky, shrub, meadows or forest wetlands.

In many cases, there was an absence of inundated or saturated conditions from which to determine wetland hydrology. Hydrological indicators for the wetland areas included drainage patterns in wetlands, water stained leaves, oxidized root channels in upper 12 inches and local soil survey data (See hydrology section of Wetland Data Forms in Appendix B).

3.3 SOILS

The soils in the wetland areas on this site consisted mostly of silty clay loams (10YR2/1 to 10YR3/2) with common to many mottles (10YR4/1 to 10YR5/6). These soils are classified by the USDASCS as poorly drained. Upland soils consisted of silty clay loams with 0-3% slope (10YR3/1 to 10YR5/3) with few to many mottles (10YR3/1 to 10YR5/4). The upland soils are classified by the USDASCS as somewhat poorly drained. The hydric indicators for the wetland soils were the gleyed or low chroma soils (Appendix A, Photograph #8), the presence of histosols and soils listed on local hydric soils list. A Soil Conservation Service (SCS) Soils Map of the delineation area is shown in Figure 3.

3.4 WETLAND BOUNDARY

Based on the evidence of topographic trends, hydric soils descriptions and the presence of wetland vegetation, the wetland boundaries were flagged and marked with sequentially numbered surveyors tape. The GPS plotted wetland boundaries are depicted on the accompanying wetland delineation map. The wetland boundary and data points were surveyed using a Trimble Pathfinder Pro XRS/DGPS Global Positioning System (GPS) which utilized a TSC1 Data Collector. This unit was calibrated twice daily and received survey band information from several survey band stations. The corrected survey information is accurate to within 1.0 meter of the survey flags (Plate 1).

3.5 OTHER WATERS OF THE UNITED STATES

Within the delineation area there are no other waters of the United States.

4.0 **CONCLUSION**

A wetland delineation was completed for the indicated area at the Seneca Army Depot in Romulus, New York using the "Routine Method" outlined by the ACOE. Approximately 193 acres of wetlands were identified within the boundaries specified.

These delineated wetlands exhibited the three wetland characteristics: hydric soils, wetland hydrology and wetland vegetation. Most of the wetlands observed formed in the relatively low lying areas and consisted of emergent marsh and forested wetlands.

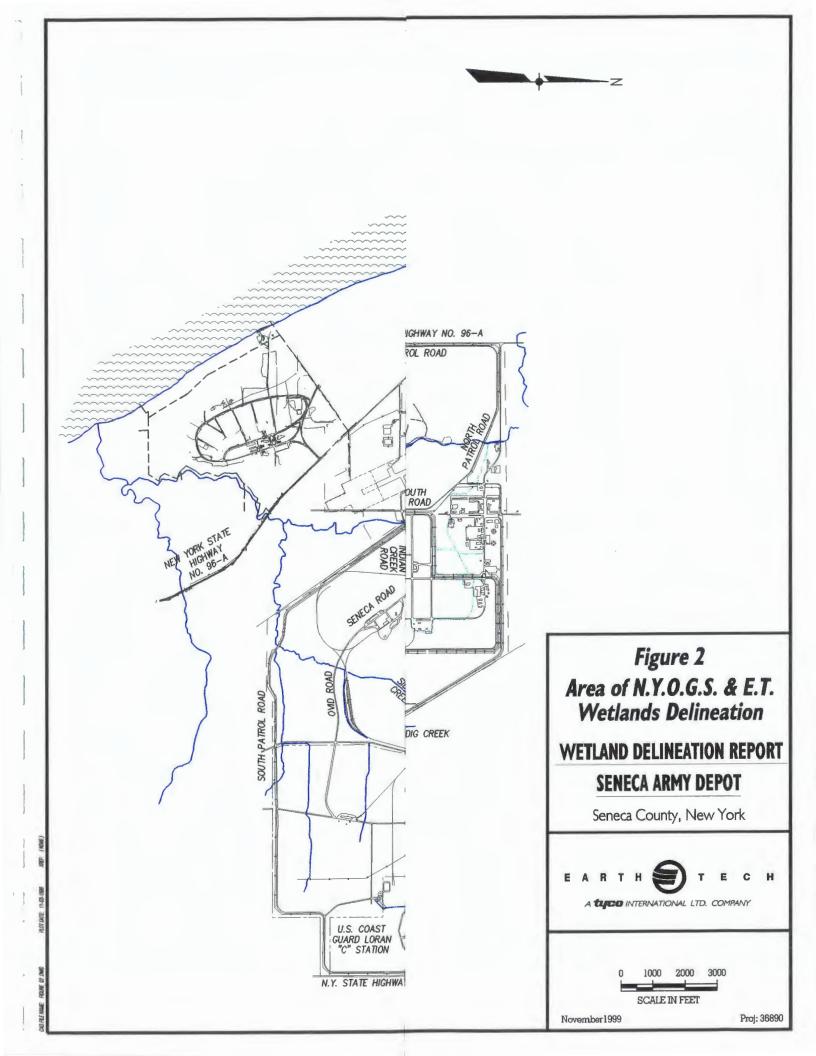
5.0 REFERENCES CITED

- Cowardin, L. M., Carter, V, Golet, F. C., LaRoe, E. T., 1979. Classification of Wetlands and Deepwater Habitats of the United States. U. S. Fish and Wildlife Service Publication FWS/OBS-79/31.
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FIGURES

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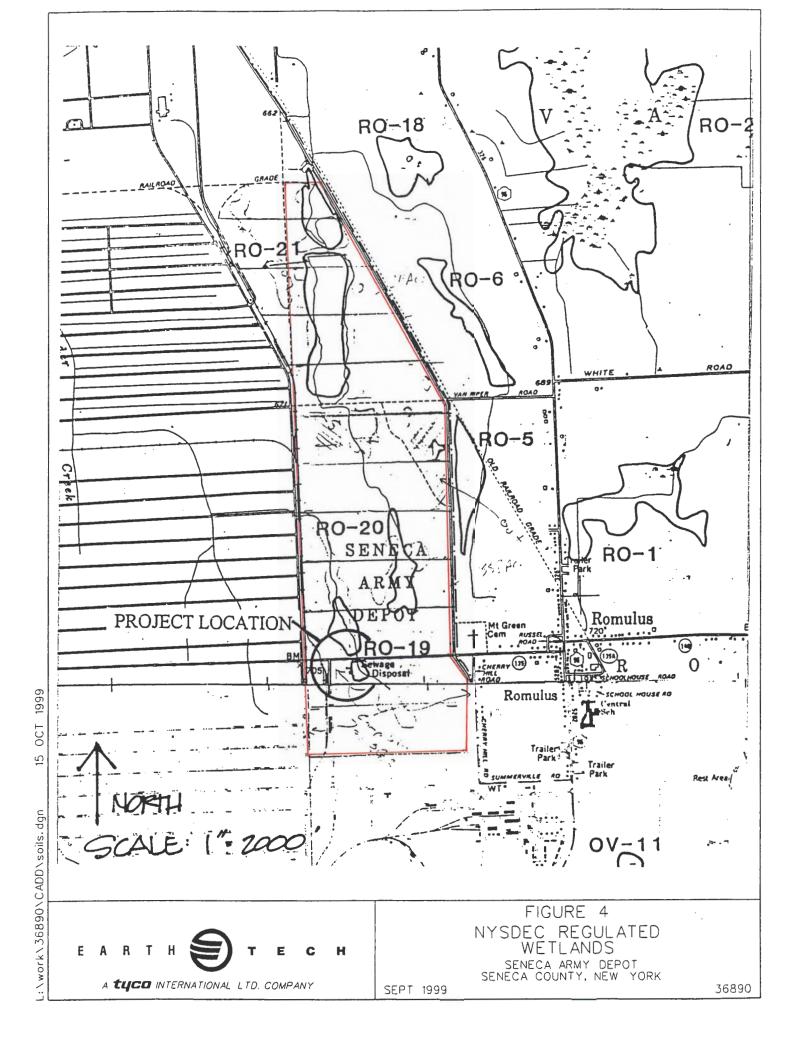
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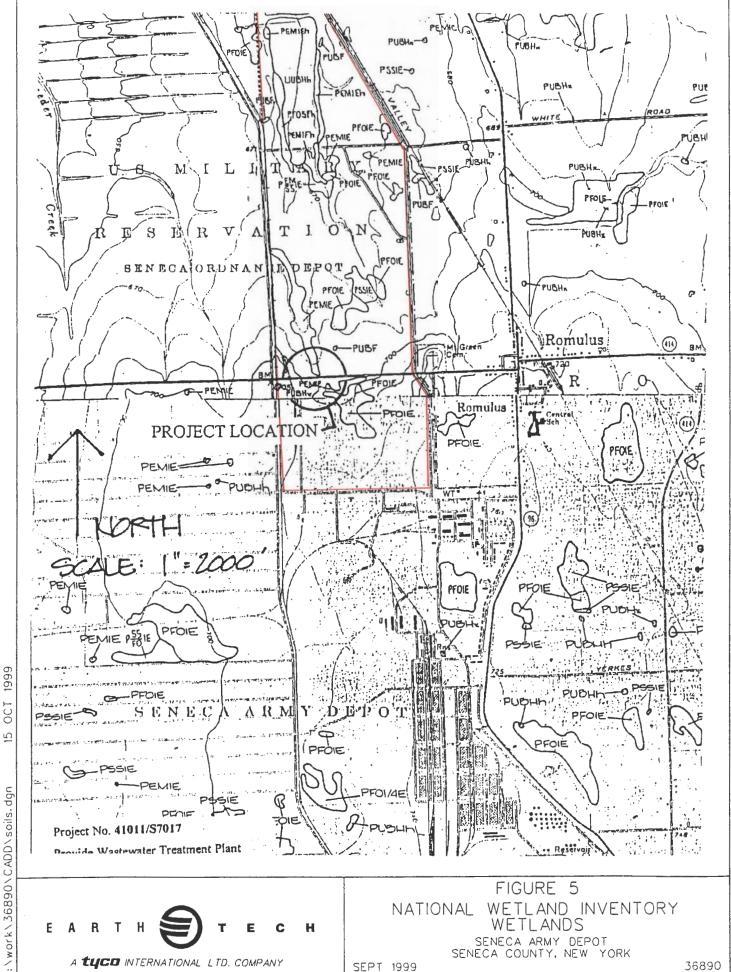
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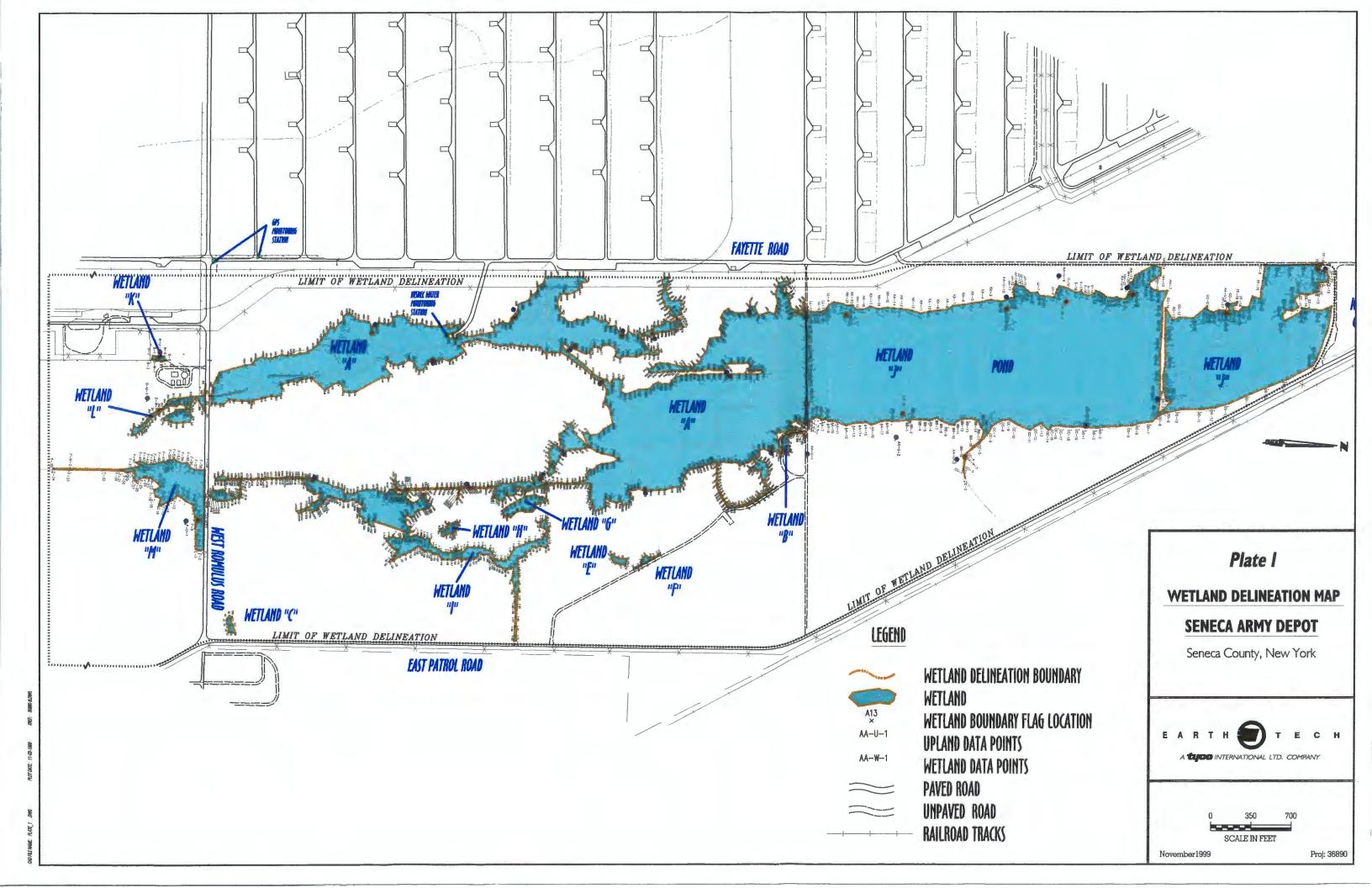


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PLATES

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APPENDIX A

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Photograph #1: Shows slight topographic grade and old-field successional growth present at site.



Photograph #2: Example of wetland areas at site consisting of open shallow emergent marsh forming in relatively low-lying areas.

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Photograph #3: Wetland "A" near flag #762. Example of wetland areas at site consisting of flood-plain forests forming adjacent to creek beds.



Photograph #4; Wetland "A" near flag #762. Drainage patterns in wetlands.

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Photograph #5: Upland near flag A-756. Example of successional southern hardwoods in upland forest areas.



Photograph #6: Example of clear-cut areas prevalent across site. This photograph exemplifies the difficulty of determination between wetland areas and uplands. Notice the Cardinal flower and Red-osier dogwood in the foreground as well as the *Scirpus* species at right (all FACW or better) occurring very near the Wild Carrot, Hawkweed and Tall Goldenrod (All FACU or higher).

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Photograph #7: View north from flag A-1. This photograph shows the wide transition zones between wetland areas and uplands. Notice the Common Reeds and Silky Dogwood at right; the gradual change in vegetation; and the Tall Goldenrod and Sweet Goldenrod that persist across the upland areas of the site.



Photograph #8: Soil profile at data plot A-W-6. Notice the gleyed/low chroma soil in the B horizon.

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APPENDIX B

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ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: 36890 Date: 7-Oct-1999 Applicant/Owner: NYS Office of General Svces. County: Seneca Investigators: Richard S. Totino, Marc Bergeron State: New York Plot ID: A-W-1

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 the reverse side)

(Yes) (N_0) Yes Yes

(No)

Community ID: WET No

Transect ID: Field Location:

At Wetland Delineation flag A-24.

VEGETATION

(USFWS Region No. 1)

	Illiulcator	Plant Species(Latin/Common)	Stratum	Indicato
Herb	OBL	Solidago altissima	Herb	FACU-
1		Golden-Rod,Tall		
Shrub	FACW	Impatiens capensis	Herb	FACW
		Touch-Me-Not,Spotted		
Shrub	FAC			
<u> </u>				<u> </u>
]				
	Shrub	Shrub FACW	Golden-Rod,Tall Shrub FACW Impatiens capensis Touch-Me-Not,Spotted Shrub FAC	Golden-Rod,Tall Shrub FACW Impatiens capensis Touch-Me-Not,Spotted Shrub FAC

4/5 = 80.00%

(excluding FAC-)

Numeric Index: 12/5 = 2.40

Remarks:

No trees, saplings or vines present.

HYDROLOGY

NO Recorded Data(Describe in Rer	narks):	Wetland Hydrology Indicators
N/A Stream, Lake or Tide Gau	ge	Primary Indicators
N/A Aerial Photographs		NO Inundated
N/A Other		NO Saturated in Upper 12 Inches
YES No Recorded Data		NO Water Marks
1 123 No Recorded Data		NO Drift Lines
		NO Sediment Deposits
Field Observations		NO Drainage Patterns in Wetlands
		Secondary Indicators (2 or more required):
Depth of Surface Water:	N/A (in.)	YES Oxidized Root Channels in Upper 12 Inches
	NI/A //)	NO Water-Stained Leaves
Depth to Free Water in Pit:	N/A (in.)	NO Local Soil Survey Data
Depth to Saturated Soil:	N/A (in.)	YES FAC-Neutral Test
Depth to Saturated Soil.	(III.)	NO Other (Explain in Remarks)

Remarks:

Drought conditions at site.

Page 1 of 2 WetForm m

DAIA LOUIN

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: 36890

Applicant/Owner: NYS Office of General Svces.

Project No: 36890 Date: 7-Oct-1999
County: Seneca

State: New York Plot ID: A-W-1

SOILS

Map Unit Name (Series and Phase): Ilion silty clay loam
Map Symbol: Is Drainage Class: poorly drained

Richard S. Totino, Marc Bergeron

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes No

lusion?

Taxonomy (Subgroup): mesic Mollic Endoaqualfs
Profile Description

Investigators:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)		ottle ce/Contrast	Texture, Concretions, Structure, etc
0-10	Α	10YR2/1	10YR3/3	Few	Distinct	Silty clay loam
10-18+	Bw	10YR4/1	10YR4/4	Many	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime
NO Reducing Conditions

YES Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils YES Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	(Yes) No	Is the Sampling Point within the Wetland?	Yes No	0
Wetland Hydrology Present?	Yes No	i		
Hydric Soils Present?	Yes No			

Remarks:

Drought conditions at site. At Wetland Delineation flag A-24.

DATA FURIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

investigators:

Seneca Army Depot

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron Project No: 36890

27-Sep-1999 Date:

County: Seneca State: New York Plot ID: A-U-1

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 the reverse side)

Yes) Yes

Yes

No (No) (No

Community ID: UPL

Transect ID: Field Location:

At Wetland Delineation flag A-24

VEGETATION

(USFWS Region No. 1)

72027771077			,		
Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Solidago altissima	Herb	FACU-	Achillea millefolium	Herb	FACU
Golden-Rod,Tall	1		Yarrow, Common		
Elaeagnus angustifolia	Shrub	FACU	Solidago odora	Herb	NI
Olive,Russian	1		Goldenrod, Sweet		
Cornus amomum	Shrub	FACW	Phleum pratense	Herb	FACU
Dogwood,Silky	1		Timothy		
Daucus carota	Herb	NI			
Wild Carrot					

Percent of Dominant Species that are OBL, FACW or FAC: 1/5 = 20.00%

(excluding FAC-)

FAC Neutral:

1/5 = 20.00%

Numeric Index: 18/5 = 3.60

Remarks:

No trees, saplings or vines.

HYDROLOGY

NO Recorded Data(Describe in Remarks):

N/A Stream, Lake or Tide Gauge

N/A (in.)

N/A (in.)

N/A (in.)

N/A Aerial Photographs

Depth of Surface Water:

Depth to Saturated Soil:

Depth to Free Water in Pit:

N/A Other

YES No Recorded Data

Field Observations

Wetland Hydrology Indicators

Primary Indicators

NO Inundated

NO Saturated in Upper 12 Inches

NO Water Marks

NO Drift Lines

NO Sediment Deposits

NO Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

NO Oxidized Root Channels in Upper 12 Inches

NO Water-Stained Leaves

NO Local Soil Survey Data

NO FAC-Neutral Test

NO Other (Explain in Remarks)

Remarks:

Drought conditions.

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DATA FURIV

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Seneca Army Depot

Project No: 36890

Date: 27-Sep-1999

Investigators:

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron County: Seneca State: New York

Plot ID: A-U-1

SOILS

Map Unit Name (Series and Phase): Darien silt loam

Drainage Class: somewhat poorly drained Map Symbol: DaA

Mapped Hydric Inclusion?

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs

Field Observations Confirm Mapped Type? (Yes)

Profile Description

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mot Abundance		Texture, Concretions, Structure, etc
0-4	A	10YR3/2	N/A	N/A	N/A	Silty clay loam
4-18+	Bw	10YR4/1	10R5/3	Common	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Concretions

NO Histic Epipedon

NO High Organic Content in Surface Layer in Sandy Soils

NO Sulfidic Odor

NO Organic Streaking in Sandy Solls

NO Aquic Moisture Regime NO Reducing Conditions

NO Listed on Local Hydric Soils List NO Listed on National Hydric Soils List

NO Gleyed or Low Chroma Colors

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No	Is the Sampling Point within the Wetland?	Yes No	
Wetland Hydrology Present?	Yes No			
Hydric Soils Present?	Yes No			

Remarks:

Plot located at Wetland Delineation flag A-24.

DATA CODIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Applicant/Owner: NYS Office of General Svces.

Richard S. Totino, Marc Bergeron

Project No: 36890

Date: 27-Sep-1999 County: Seneca

State: New York Plot ID: A-W-2

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 the reverse side)

(Yes) Yes Yes (No)

No (N_0)

Community ID: WET

Transect ID: Field Location:

At Wetland Delineation flag A-57

VEGETATION

Investigators:

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato				
Viburnum recognitum	Shrub	FACW-	Glyceria striata	Herb	OBL				
Arrow-Wood, Northern	7		Grass,Fowl Manna						
Cornus amomum	Shrub	FACW	Juncus canadensis	Herb	OBL				
Dogwood, Silky			Rush, Canada						
Cornus stolonifera	Shrub	FACW+	Solidago odora	Herb	NI				
Dogwood,Red-Osier	1		Goldenrod, Sweet						
Cornus amomum	Herb	FACW							
Dogwood,Silky									
	1	1	1	1 1	1				
	1								
	7	1 1							

(excluding FAC-) 6/6 = 100.00%

NO Recorded Data(Describe in Remarks):

Depth to Saturated Soil:

Numeric Index: 10/6 = 1.67

NO Other (Explain in Remarks)

Wetland Hydrology Indicators

Remarks:

HYDROLOGY

1	N/A Stream, Lake or Tide Gau	ge ·	Primary Indicators
	N/A Aerial Photographs		NO Inundated
1	<u>N/A</u> Other		NO Saturated in Upper 12 Inches
	YES No Recorded Data		NO Water Marks
ı	123 No necorded Data		NO Drift Lines
	Fig. 1.1.0ts as a mark to a		NO Sediment Deposits
-	Field Observations		NO Drainage Patterns in Wetlands
-			Secondary Indicators (2 or more required):
	Depth of Surface Water:	N/A (in.)	YES Oxidized Root Channels in Upper 12 Inches
1	Depth to Free Water in Pit: N/A (in.)		NO Water-Stained Leaves
1	Depth to Free Water in Pit:	IN/A (In.)	NO Local Soil Survey Data
l	Depth to Saturated Soil:	N/A (in.)	YES FAC-Neutral Test

N/A (in.)

Remarks:

Drought conditions.

WetForm m Page 1 of 2

DATA FURNI

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site:

Profile Description

Seneca Army Depot

Project No: 36890

Date: 27-Sep-1999

Applicant/Owner: NYS Office of General Svces.

Investigators: Richard S. Totino, Marc Bergeron

County: Seneca State: New York Plot ID: A-W-2

SOILS

Map Unit Name (Series and Phase): Ilion silty clay loam
Map Symbol: Is Drainage Class: poorly drained

Taxonomy (Subgroup): mesic Mollic Endoaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes

Yes

Depth (Inches) Horizon		Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mot Abundance		Texture, Concretions, Structure, etc
0-4	Α	10YR3/1	10YR5/6	Common	Distinct	Silty clay loam
4-13	Bw	10YR4/1	10YR5/6	Common	Distinct	Silty clay
13-18+	Bw ·	10YR5/1	10YR5/6	Few	Distinct	Clay

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime YES Reducing Conditions

YES Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

YES Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

Hard clay layer at approximately 13' BGS.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No	Is the Sampling Point within the Wetland?	(Yes) No
Wetland Hydrology Present?	Yes No		
Hydric Soils Present?	Yes No		

Remarks:

Wetland shows wide transition to upland due to gradual slope. Herbaceous plants good indicator of boundary. Plot at Wetland Delineation flag A-57.

DATA CODIVI ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project No: 36890 Project/Site: Applicant/Owner: NYS Office of General Svces.

County: Seneca State: New York Plot ID: A-U-2

27-Sep-1999

Date:

Do Normal Circumstances exist on the site?

Is the site significantly disturbed (Atypical Situation:)?

Richard S. Totino, Marc Bergeron

is the area a potential Problem Area?

(If needed, explain on the reverse side)

(Yes)

No (No) Yes (No) Yes

Community ID: UPL Transect ID:

Field Location:

At Wetland Delineation flag A-57

VEGETATION

Investigators:

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Cornus amomum	Herb	FACW	Phleum pratense	Herb	FACU
Dogwood, Silky	1		Timothy		
Solidago odora	Herb	NI	Daucus carota	Herb	NI
Goldenrod, Sweet			Wild Carrot		
	1				
	4				
	-				
	-				
	 				
	-				
	 				
	1				
Percent of Dominant Species that are OBI	EACW o	r EAC:	FAC Neutral: 1/2 = 50.00%		

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

1/2 = 50.00%

Numeric Index:

6/2 = 3.00

Remarks:

No trees, saplings, shrubs or vines.

HYDROLOGY

NO Recorded Data(Describe in Remarks):

N/A Stream, Lake or Tide Gauge

N/A Aerial Photographs

N/A Other

YES No Recorded Data

Field Observations

Depth of Surface Water:

Depth to Free Water in Pit: Depth to Saturated Soil:

N/A (in.)

N/A (in.)

N/A (in.)

Wetland Hydrology Indicators

Primary Indicators

NO Inundated

NO Saturated in Upper 12 Inches

NO Water Marks

NO Drift Lines

NO Sediment Deposits

NO Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

NO Oxidized Root Channels in Upper 12 Inches

NO Water-Stained Leaves

NO Local Soil Survey Data

NO FAC-Neutral Test

NO Other (Explain in Remarks)

Remarks:

Drought conditions.

Page 1 of 2 WetForm m

DATA FURIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Seneca Army Depot

Project No: 36890

Date: 27-Sep-1999 County: Seneca

Investigators:

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron

State: New York Plot ID: A-U-2

SOILS

Map Unit Name (Series and Phase): Darien silt loam

Drainage Class: somewhat poorly drained Map Symbol: DaA

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs Profile Description

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mor Abundance		Texture, Concretions, Structure, etc
0-4	Α	10YR3/2	N/A	N/A	N/A	Silty clay loam
4-12	Bw	. 10YR3/1	N/A	N/A	N/A	Silty clay
12-18+	Bw	. 10YR5/1	10YR5/6	Common	Distinct	Clay

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime

NO Reducing Conditions

NO Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

NO Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes (No)	Is the Sampling Point within the Wetland?	Yes No	
Wetland Hydrology Present?	Yes No			
Hydric Soils Present?	Yes No			

Remarks:

At Wetland Delineation flag A-57.

UATA FURIVI ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project/Site: Applicant/Owner: NYS Office of General Svces.

Richard S. Totino, Marc Bergeron

Project No: 36890

27-Sep-1999 Date: County: Seneca State: New York

Plot ID: A-W-3

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 the reverse side)

(Yes)

No Yes (No) Yes No

Community ID: WET Transect ID:

Field Location:

At Wetland Delineation flag A-102.

١/	E	2	⊏.	ГΑ	TI	0	N

Investigators:

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Typha latifolia	Herb	OBL	Carex crinita	Herb	OBL
Cattail, Broad-Leaf	1		Sedge,Fringed		
Lythrum salicaria	Herb	FACW+	Mentha arvensis	Herb	FACW
Loosestrife, Purple			Mint, Field		
	1				
			540 November 4/4 100 009/	L	

Percent of Dominant Species that are OBL, FACW or FAC:

4/4 = 100.00%(excluding FAC-)

4/4 = 100.00%FAC Neutral: 6/4 = 1.50Numeric Index:

Remarks:

HYDROLOGY

NO Recorded Data(Describe in Remarks):

N/A Stream, Lake or Tide Gauge

N/A Aerial Photographs

N/A Other

YES No Recorded Data

Field Observations

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

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

Depth to Saturated Soil: = 1.0 (in.) Wetland Hydrology Indicators

Primary Indicators

NO Inundated

YES Saturated in Upper 12 Inches

NO Water Marks

NO Drift Lines

NO Sediment Deposits

NO Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

YES Oxidized Root Channels in Upper 12 Inches

NO Water-Stained Leaves

NO Local Soil Survey Data

YES FAC-Neutral Test

NO Other (Explain in Remarks)

Remarks:

Intermittent drainage swale. Drought conditions.

Page 1 of 2 WetForm m

DATA FURIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Seneca Army Depot

Project No: 36890

Date: 27-Sep-1999 County: Seneca

Investigators:

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron

State: New York Plot ID: A-W-3

SOILS

Map Unit Name (Series and Phase): Ilion silty clay loam Map Symbol: Is

Drainage Class: poorly drained

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes No

Taxonomy (Subgroup): mesic Mollic Endoaqualfs Profile Description

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	manus a distribution of the state of the sta		ttle e/Contrast	Texture, Concretions, Structure, etc	
0-3	Oi	10YR3/1	N/A	N/A	N/A	Silty clay, Roots	
3-8	Bw	10YR4/2	10YR4/4	Common	Distinct	Silty clay	
8-18+	Bw	10YR5/1	10YR5/4	Common	Distinct	Silty clay	

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime YES Reducing Conditions

YES Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

YES Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Is the Sampling Point within the Wetland? (Yes) (Yes) No Wetland Hydrology Present? No (Yes) Hydric Soils Present? No

Remarks:

At Wetland Delineation flag A-102.

DATA CODIVI

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: 36890 Date: 27-Sep-1999
Applicant/Owner: NYS Office of General Svces.
Investigators: Richard S. Totino, Marc Bergeron State: New York
Plot ID: A-U-3

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 the reverse side)

Yes No Community ID: UPL Transect ID:
Yes No No Field Location:

At Wetland Delineation flag A-102.

VEGETATION

(USFWS Region No. 1)

VEGETATION			gion No. 1)							
Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato					
Elaeagnus angustifolia	Shrub	FACU	Plantago major	Herb	FACU					
Olive, Russian]		Plantain, Common							
Daucus carota	Herb	NI	Phleum pratense	Herb	FACU					
Wild Carrot			Timothy							
Solidago odora	Herb	NI								
Goldenrod, Sweet					<u></u>					
	1									
	7									
	1									
Percent of Dominant Species that are OBI (excluding FAC-) 0/3 = 0.00%	, FACW o	r FAC:	FAC Neutral: 0/3 = 0.00% Numeric Index: 12/3 = 4.00							
Remarks:			•							

HYDROLOGY

No trees, saplings, vines.

arks):	Wetland Hydrology Indicators	
je	Primary Indicators	
	NO Inundated	
	NO Saturated in Upper 12 Inches	
	NO Water Marks	
	NO Drift Lines	
	NO Sediment Deposits	-
	NO Drainage Patterns in Wetlands	
	Secondary Indicators (2 or more required):	
N/A (in.)	NO Oxidized Root Channels in Upper 12 Inches	
ALLA	NO Water-Stained Leaves	
N/A (in.)	NO Local Soil Survey Data	
N/A /in)	NO FAC-Neutral Test	
19/A (///.)	NO Other (Explain in Remarks)	
	ge	NO Inundated NO Saturated in Upper 12 Inches NO Water Marks NO Drift Lines NO Sediment Deposits NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): N/A (in.) N/A (in.) N/A (in.) N/A (in.) N/A (in.) NO EAC-Neutral Test

Remarks:

Drought conditions.

Page 1 of 2 WetFormtm

UATA FUKIVI ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Seneca Army Depot

Project No: 36890

Date: 27-Sep-1999

Investigators:

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron

County: Seneca State: New York

Plot ID: A-U-3

SOILS

Map Unit Name (Series and Phase): Darien silt loam

Map Symbol: DaA Drainage Class: somewhat poorly drained

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes No

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs Profile Description

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)		ttle e/Contrast	Texture, Concretions, Structure, etc
0-8	А	2.5Y5/4	N/A	N/A	N/A	Silty clay loam
8+	В	10YR5/1	N/A	N/A	N/A	Clay

Hydric Soil Indicators:

NO Histosol

NO Concretions

NO Histic Epipedon

NO High Organic Content in Surface Layer in Sandy Soils

NO Sulfidic Odor

NO Organic Streaking in Sandy Soils

NO Aquic Moisture Regime NO Reducing Conditions

NO Listed on Local Hydric Soils List NO Listed on National Hydric Soils List

NO Gleyed or Low Chroma Colors NO Other (Explain in Remarks)

Remarks:

Significant clay layer at approx. 8-10° BGS. Shale fragments.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No	Is the Sampling Point within the Wetland?	Yes No	
Wetland Hydrology Present?	Yes No			
Hydric Soils Present?	Yes No			

Remarks:

At Wetland Delineation flag A-102.

DATA FURIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project/Site: Applicant/Owner: NYS Office of General Svces.

Richard S. Totino, Marc Bergeron

Project No: 36890

27-Sep-1999 Date: County: Seneca State: New York

Plot ID: A-W-4

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 the reverse side)

(Yes) Yes

No (No) (No) Yes

Community ID: WET Transect ID:

Field Location:

At Wetland Delineation flag A-146.

VEGETATION

Investigators:

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Scirpus atrovirens	Herb	OBL	Viburnum recognitum	Shrub	FACW-
Bulrush, Green	1		Arrow-Wood, Northern		
Juncus canadensis	Herb	OBL	Vaccinium marianum	Shrub	FAC
Rush, Canada	1		Blueberry,Highbush		ļ
Salix nigra	Herb	FACW+	Ulmus rubra	Shrub	FAC
Willow,Black	1		Elm, Slippery		
Salix nigra	Shrub	FACW+	Populus tremula	Shrub	FACU
Willow,Black	1		Aspen,Quaking		·
	+	}			
	-				

Percent of Dominant Species that are OBL, FACW or FAC:

7/8 = 87.50% (excluding FAC-)

NO Recorded Data(Describe in Remarks):

FAC Neutral: 5/6 = 83.33% Numeric Index: 18/8 = 2.25

NO Other (Explain in Remarks)

Wetland Hydrology Indicators

Remarks:

U. rubra and P. tremula are saplings.

HYDROLOGY

-1			1
1	N/A Stream, Lake or Tide Gau	ge	Primary Indicators
1	N/A Aerial Photographs		NO Inundated
I	N/A Other		NO Saturated in Upper 12 Inches
	VES No Boomded Boto		NO Water Marks
ļ	YES No Recorded Data		NO Drift Lines
İ			NO Sediment Deposits
Į	Field Observations		YES Drainage Patterns in Wetlands
			Secondary Indicators (2 or more required):
-	Depth of Surface Water:	N/A (in.)	YES Oxidized Root Channels in Upper 12 Inches
Ì	D	NI/A /	NO Water-Stained Leaves
Į	Depth to Free Water in Pit:	N/A (in.)	NO Local Soil Survey Data
	Depth to Saturated Soil:	N/A (in.)	YES FAC-Neutral Test
	Depth to Gatarated John.	(111.)	NO Other (Explain in Bernaulta)

Remarks:

Low lying drainage area.

Page 1 of 2 WetForm Im

DATA FURIVI **ROUTINE WETLAND DETERMINATION**

(1987 COE Wetlands Delineation Manual)

Project/Site:

Seneca Army Depot

Project No: 36890

27-Sep-1999 Date: County: Seneca

Investigators:

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron

State: New York

Plot ID: A-W-4

SOILS

Map Unit Name (Series and Phase): Ilion silty clay loam

Map Symbol: Is

Profile Description

Drainage Class: poorly drained

Taxonomy (Subgroup): mesic Mollic Endoaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes (No)

Depth (Inches)	Matrix Color Horizon (Munsell Moist)		Mottle Color (Munsell Moist)	Mot Abundance		Texture, Concretions, Structure, e	
0-2	Oi	10YR2/1	N/A	N/A	N/A	Silty clay	
2-4	A	7.5YR5/1	7.5YR4/4	Common	Distinct	Silty clay	
4-18+	В	7.5YR6/1	7.5YR4/4	Common	Distinct	Silty clay	

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime YES Reducing Conditions

YES Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

YES Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

Silty clay

NO Other (Explain in Remarks)

Remarks:

Hard clay layer at approx. 13" BGS.

WETLAND DETERMINATION

	Hydrophytic Vegetation Present?	(Yes)	No	Is the Sampling Point within the Wetland?	Yes	No
11	Wetland Hydrology Present?	(Yes)	No			
	Hydric Soils Present?	Yes	No			

Remarks:

At Wetland Delineation flag A-146.

DATA FUNIVI ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: Project No: 36890 Seneca Army Depot Date: 27-Sep-1999 Applicant/Owner: NYS Office of General Svces. County: Seneca Richard S. Totino, Marc Bergeron Investigators: State: New York Plot ID: A-U-4 Do Normal Circumstances exist on the site? (Yes) Community ID: UPL Nο Transect ID: Is the site significantly disturbed (Atypical Situation:)? Yes (No) Field Location: Is the area a potential Problem Area? Yes (No (If needed, explain on the reverse side) At Wetland Delineation flag A-146. **VEGETATION** (USFWS Region No. 1) Stratum Indicator Plant Species(Latin/Common) Dominant Plant Species(Latin/Common) Stratum Indicator Daucus carota Herb Phleum pratense Herb FACU Wild Carrot Timothy ΝI Solidago odora Herb Goldenrod, Sweet Percent of Dominant Species that are OBL, FACW or FAC: 0/1 = 0.00%**FAC Neutral:** 0/1 = 0.00%Numeric Index: (excluding FAC-) 4/1 = 4.00Remarks: **HYDROLOGY** NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators N/A Stream, Lake or Tide Gauge **Primary Indicators** N/A Aerial Photographs NO Inundated N/A Other NO Saturated in Upper 12 Inches NO Water Marks YES No Recorded Data **NO Drift Lines NO Sediment Deposits** Field Observations NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water:

N/A (in.)

Depth to Free Water in Pit:

Depth to Saturated Soil:

N/A (in.)

N/A (in.)

NO Oxidized Root Channels in Upper 12 Inches

NO Water-Stained Leaves NO Local Soil Survey Data

NO FAC-Neutral Test

NO Other (Explain in Remarks)

Remarks:

Drought conditions.

DATA FURIN **ROUTINE WETLAND DETERMINATION**

(1987 COE Wetlands Delineation Manual) Seneca Army Depot Project/Site:

Applicant/Owner: NYS Office of General Svces.

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs

Project No: 36890

Date: 27-Sep-1999 County: Seneca

State: New York Plot ID: A-U-4

SOILS

Map Unit Name (Series and Phase): Darien silt loam

Drainage Class: somewhat poorly drained Map Symbol: DaA

Richard S. Totino, Marc Bergeron

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes (No)

Profile Description

Investigators:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	,	ttle e/Contrast	Texture, Concretions, Structure, etc
0-12	Α	10YR3/4	N/A	N/A	N/A	Silt loam
12-18+	Bw	10YR4/1	N/A	N/A	N/A	Silty clay

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon NO Sulfidic Odor

NO Aquic Moisture Regime

NO Reducing Conditions NO Gleyed or Low Chroma Colors NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

NO Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No	Is the Sampling Point within the Wetland? Y	es No
Wetland Hydrology Present?	Yes No		
Hydric Soils Present?	Yes No		

Remarks:

At Wetland Delineation flag A-146.

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

Project/Site: Seneca Army Depot Project No: 36890 Date: 27-Sep-1999 Applicant/Owner: NYS Office of General Svces. County: Seneca Investigators: Richard S. Totino, Marc Bergeron State: New York Plot ID: A-W-5

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 the reverse side)

(Yes) No Yes (No) Yes (No)

Community ID: WET Transect ID:

Field Location:

At Wetland Delineation flag A-180.

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Robinia pseudoacacia	Tree	FACU-	Crataegus crus-galli	Shrub	FACU
Locust,Black	1		Hawthorn,Cockspur		
Ulmus rubra	Tree	FAC	Toxicodendron radicans	Herb	FAC
Elm,Slippery			Ivy,Poison		
Fraxinus pennsylvanica	Tree	FACW	Fraxinus pennsylvanica	Herb	FACW
Ash,Green	1		Ash,Green		
Robinia pseudoacacia	Shrub	FACU-	Potentilla simplex	Herb	FACU-
Locust,Black	7		Cinquefoil,Old Field		
Cornus amomum	Shrub	FACW			
Dogwood,Silky					
	-				
Percent of Dominant Species that are OBI (excluding FAC-) 5/9 = 55.56%	L, FACW o	r FAC:	FAC Neutral: 3/7 = 42.86% Numeric Index: 28/9 = 3.11		

HYDROLOGY

NO Recorded Data(Describe in Rer	narks):	Wetland Hydrology Indicators
N/A Stream, Lake or Tide Gau	ige	Primary Indicators
<u>N/A</u> Aerial Photographs		NO Inundated
N/A Other		NO Saturated in Upper 12 Inches
YES No Recorded Data		NO Water Marks
123 No necorded Data		NO Drift Lines
		NO Sediment Deposits
Field Observations		YES Drainage Patterns in Wetlands
		Secondary Indicators (2 or more required):
Depth of Surface Water:	N/A (in.)	YES Oxidized Root Channels in Upper 12 Inches
Donth to Free Water in Dit.	N/A /in)	YES Water-Stained Leaves
Depth to Free Water in Pit:	N/A (in.)	NO Local Soil Survey Data
Depth to Saturated Soil:	N/A (in.)	NO FAC-Neutral Test
Deptit to datarated don.	(111.)	NO Other (Explain in Remarks)

Remarks:

Drought conditions. Scouring evident. Flood plain area.

Page 1 of 2 WetForm tm

UATA FURIVI **ROUTINE WETLAND DETERMINATION**

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project/Site:

Applicant/Owner: NYS Office of General Svces.

Richard S. Totino, Marc Bergeron

Project No: 36890

27-Sep-1999 Date:

County: Seneca State: New York Plot ID: A-W-5

SOILS

Map Unit Name (Series and Phase): Ilion silty clay loam

Map Symbol: Is

Investigators:

Drainage Class: poorly drained

Taxonomy (Subgroup): mesic Mollic Endoaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes (No)

Profile Description

Depth (inches) Horizo		Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mot Abundance		Texture, Concretions, Structure, etc
0-3	Α	10YR3/2	N/A	N/A	N/A	Silty clay loam
3-8	8	10YR4/1	10YR5/6	Common	Distinct	Silty clay loam
8-18+	В	10YR5/1	10YR5/6	Common	Distinct	Clay

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime **NO Reducing Conditions**

YES Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

YES Listed on Local Hydric Soils List NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

Hard clay layer at approx. 8-10" BGS.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Is the Sampling Point within the Wetland?	Yes	No	
Wetland Hydrology Present?	Yes	No				
Hydric Soils Present?	Yes	No				

Remarks:

At Wetland Delineation flag A-180.

DATA FUNIVI ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot 27-Sep-1999 Project/Site: Project No: 36890 Date: Applicant/Owner: NYS Office of General Svces. County: Seneca Richard S. Totino, Marc Bergeron State: New York Investigators: Plot ID: A-U-5

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 the reverse side)

Yes) (No) Yes

Yes

(No

Community ID: UPL

Transect ID: Field Location:

At Wetland Delineation flag A-180.

VEGETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	indicato
Quercus alba	Tree	FACU-	Ulmus rubra	Tree	FAC
Oak,White	1		Elm,Slippery		
Carya ovata	Tree	FACU-	Robinia pseudoacacia	Shrub	FACU-
Hickory, Shag-Bark	1		Locust,Black		
Robinia pseudoacacia	Tree	FACU-	Crataegus crus-galli	Shrub	FACU
Locust,Black			Hawthorn, Cockspur		
Fraxinus pennsylvanica	Tree	FACW			
Ash,Green					
	-				
					
	-				
Devent of Deminent Species that are OBI	FACW -	r EAC:	EAC Noutral: 1/6 -16 679/		

Percent of Dominant Species that are OBL, FACW or FAC:

2/7 = 28.57%(excluding FAC-)

FAC Neutral:

1/6 = 16.67%

25/7 = 3.57Numeric Index:

Remarks:

NO Recorded Data(Describe in Remarks): N/A Stream, Lake or Tide Gauge

N/A Aerial Photographs

N/A Other

YES No Recorded Data

Field Observations

Depth of Surface Water:

N/A (in.)

N/A (in.)

N/A (in.)

Depth to Free Water in Pit:

Depth to Saturated Soil:

Wetland Hydrology Indicators

Primary Indicators

NO inundated

NO Saturated in Upper 12 Inches

NO Water Marks

NO Drift Lines

NO Sediment Deposits

NO Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

NO Oxidized Root Channels in Upper 12 Inches

NO Water-Stained Leaves

NO Local Soil Survey Data

NO FAC-Neutral Test

NO Other (Explain in Remarks)

Remarks:

Drought conditions.

Page 1 of 2 WetForm m

DAIA FORM **ROUTINE WETLAND DETERMINATION**

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project/Site:

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron Project No: 36890

27-Sep-1999 Date:

County: Seneca State: New York Plot ID: A-U-5

SOILS

Map Unit Name (Series and Phase): Darien silt loam

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs

Map Symbol: DaA Drainage Class: somewhat poorly drained

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes No

Profile Description

Investigators:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mo: Abundance		Texture, Concretions, Structure, etc
0-8	Α	10YR3/2	N/A	N/A	N/A	Silty clay loam
8-18+	Bw	10YR5/4	10YR5/6	Common	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime

NO Reducing Conditions NO Gleyed or Low Chroma Colors **NO Concretions**

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

NO Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No	Is the Sampling Point within the Wetland?	Yes No
Wetland Hydrology Present?	Yes No		
Hydric Soils Present?	Yes No		

Remarks:

At Wetland Delineation flag A-180

UATA FURIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project/Site: Applicant/Owner: NYS Office of General Syces. Richard S. Totino, Marc Bergeron Investigators:

Project No: 36890

1-Oct-1999 Date: County: Seneca

State: New York Plot ID: A-W-6

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 the reverse side)

(Yes) Yes (No) Yes (No

Community ID: WET

Transect ID: Field Location:

At Wetland Delineation flag A-200.

VEGETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Viburnum lentago	Shrub FAC Lobelia cardinalis		Herb	FACW+	
Nannyberry			Flower, Cardinal		
Viburnum recognitum	Shrub	FACW-	Rubus wheeleri	Herb	FACW
Arrow-Wood, Northern	7		Dewberry		
Thalictrum pubescens	Herb	FACW+	Leersia oryzoides	Herb	OBL FACW+
Meadow-Rue, Tall			Cutgrass,Rice		
Eupatorium perfoliatum	Herb	FACW+	Boehmeria cylindrica	Herb	
Boneset,Common			False-Nettle,Small-Spike		
Percent of Dominant Species that are OB	FA 01/1	- 540	FAC Neutral: 7/7 = 100.00%		

(excluding FAC-) 8/8 = 100.00%

Numeric Index: 16/8 = 2.00

Remarks:

HYDROLOGY

NO Recorded Data(Describe in Remarks):

N/A Stream, Lake or Tide Gauge

N/A Aerial Photographs

N/A Other

YES No Recorded Data

Field Observations

Depth of Surface Water:

N/A (in.)

Depth to Free Water in Pit:

N/A (in.)

Depth to Saturated Soil:

N/A (in.)

Wetland Hydrology Indicators

Primary Indicators

NO Inundated

NO Saturated in Upper 12 Inches

NO Water Marks

NO Drift Lines

NO Sediment Deposits

NO Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

YES Oxidized Root Channels in Upper 12 Inches

YES Water-Stained Leaves

YES Local Soil Survey Data

YES FAC-Neutral Test

NO Other (Explain in Remarks)

Remarks:

Drought conditions.

DATA FURIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Seneca Army Depot Applicant/Owner: NYS Office of General Svces. Project No: 36890

Date: 1-Oct-1999 County: Seneca

No

Investigators:

Richard S. Totino, Marc Bergeron

State: New York Plot ID: A-W-6

SOILS

Map Unit Name (Series and Phase): Ilion silty clay loam

Drainage Class: poorly drained Map Symbol: Is

Taxonomy (Subgroup): mesic Mollic Endoaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? (Yes)

Profile Description

Depth (Inches) Horizon		Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mot Abundance		Texture, Concretions, Structure, e
2-0	Oi	10YR3/2	N/A	N/A	N/A	Silty clay loam
0-4	Bw	10YR4/1	10YR5/6	Common	Distinct	Silty clay loam
4-18+	В	10YR6/1	10YR5/6	Common	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime YES Reducing Conditions

YES Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils YES Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydric Soils Present?

Is the Sampling Point within the Wetland? Hydrophytic Vegetation Present? (Yes) No (Yes) Wetland Hydrology Present? Νo (Yes)

No

Remarks:

Drought conditions. At Wetland Delineation flag A-200

DATA FUNIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: 36890 Date: 1-Oct-1999
Applicant/Owner: NYS Office of General Svces. County: Seneca
Investigators: Richard S. Totino, Marc Bergeron State: New York
Plot ID: A-U-6

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 the reverse side)

Yes No Com Yes No Field

Community ID: UPL Transect ID:

Field Location:

At Wetland Delineation flag A-200.

VEGETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Solidago altissima Herb Golden-Rod, Tall		FACU-	Crataegus crus-galli	Shrub	FACU
			Hawthorn, Cockspur		
Robinia pseudoacacia	Herb	FACU-	Robinia pseudoacacia	Shrub	FACU-
Locust, Black			Locust,Black		
Mitchella repens	Herb	FACU	Fraxinus americana	Shrub	FACU
Partridge-Berry	1		Ash,White		
Toxicodendron radicans	Herb	FAC	Cornus foemina	Shrub	FAC
Ivy,Poison			Dogwood, Stiff		·
	1				
	4			-	
Percent of Dominant Species that are OBL (excluding FAC-) 2/8 = 25.00%	, FACW o	r FAC:	FAC Neutral: 0/6 = 0.00% Numeric Index: 30/8 = 3.75	1	<u> </u>

HYDROLOGY

NO Recorded Data(Describe in Rer	marks):	Wetland Hydrology Indicators	I
N/A Stream, Lake or Tide Gau	ige	Primary Indicators	ı
N/A Aerial Photographs		NO Inundated	
N/A Other		NO Saturated in Upper 12 Inches	
VEC No Popular Data		NO Water Marks	ı
YES No Recorded Data		NO Drift Lines	
		NO Sediment Deposits	
Field Observations		NO Drainage Patterns in Wetlands	
		Secondary Indicators (2 or more required):	
Depth of Surface Water:	N/A (in.)	NO Oxidized Root Channels in Upper 12 Inches	
	N1/A //)	NO Water-Stained Leaves	ľ
Depth to Free Water in Pit:	N/A (in.)	NO Local Soil Survey Data	ı
Depth to Saturated Soil:	N/A (in.)	NO FAC-Neutral Test	
Depth to Saturated Son.	(111.)	NO Other (Explain in Remarks)	

Remarks:

Drought conditions.

Page 1 of 2 WetFormtm

DATA CODIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Investigators:

Seneca Army Depot

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron Project No: 36890

1-Oct-1999 Date:

County: Seneca State: New York

Plot ID: A-U-6

SOILS

Map Unit Name (Series and Phase): Darien silt loam

Map Symbol: DaA Drainage Class: somewhat poorly drained Taxonomy (Subgroup): mesic Aeric Ochraaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes (No)

Profile Description

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
0-8	Α	10YR3/2	N/A	N/A	N/A	Silty clay loam
8-18+	Bw	2.5Y4/4	2.5Y5/6	Common	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime **NO Reducing Conditions**

NO Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

NO Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No	Is the Sampling Point within the Wetland?	Yes No
Wetland Hydrology Present?	Yes No		
Hydric Soils Present?	Yes No		

Remarks:

At Wetland Delineation flag A-200.

DATA CONIVI ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

1-Oct-1999 Project/Site: Seneca Army Depot Project No: 36890 Date: Applicant/Owner: NYS Office of General Svces. County: Seneca Richard S. Totino, Marc Bergeron State: New York Investigators: Plot ID: A-W-7

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 the reverse side)

(Yes) No Community ID: WET Transect ID: Yes (No) Field Location: Yes (No)

At Wetland Delineation flag A-536.

VEGETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicate
Typha latifolia	Herb	OBL	Scirpus atrovirens	Herb	OBL
Cattail, Broad-Leaf		<u> </u>	Bulrush, Green		
Lythrum salicaria	Herb	FACW+	Blephilia hirsuta	Herb	FACU-
Loosestrife, Purple	1		Woodmint,Hairy		
Mentha arvensis	Herb	FACW			
Mint, Field	1				
					<u> </u>
	1				
	1				
Percent of Dominant Species that are OBI	, FACW o	r FAC:	FAC Neutral: 4/5 = 80.00%		

(excluding FAC-)

4/5 = 80.00%

Numeric Index: 10/5 = 2.00

Remarks:

No trees, saplings or vines present.

HYDROLOGY

NO Recorded Data(Describe in Rer	narks):	Wetland Hydrology Indicators		
N/A Stream, Lake or Tide Gau	ge	Primary Indicators		
N/A Aerial Photographs		NO Inundated		
N/A Other		NO Saturated in Upper 12 Inches		
VES No Booked Date		NO Water Marks		
YES No Recorded Data		NO Drift Lines		
		NO Sediment Deposits		
Field Observations		NO Drainage Patterns in Wetlands		
		Secondary Indicators (2 or more required):		
Depth of Surface Water:	N/A (in.)	YES Oxidized Root Channels in Upper 12 Inches		
5	NI/A ct	NO Water-Stained Leaves		
Depth to Free Water in Pit:	N/A (in.)	NO Local Soil Survey Data		
Depth to Saturated Soil:	N/A (in.)	YES FAC-Neutral Test		
Depin to datarated don.		NO Other (Explain in Remarks)		

Remarks:

Drought conditions at site.

Page 1 of 2 WetForm Im

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ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: 36890 1-Oct-1999 Date: Applicant/Owner: NYS Office of General Svces. County: Seneca Richard S. Totino, Marc Bergeron investigators: State: New York Plot ID: A-W-7

SOILS

Map Unit Name (Series and Phase): Ilion silty clay loam Map Symbol: Is Drainage Class: poorly drained

Taxonomy (Subgroup): mesic Mollic Endoaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	****	ottle ce/Contrast	Texture, Concretions, Structure, e
0-10	Α	10YR2/1	10YR3/3	Few	Distinct	Silty clay loam
10-18+	Bw	10YR4/1	10YR4/4	Many	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime YES Reducing Conditions

YES Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils YES Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	(Yes)	No	Is the Sampling Point within the Wetland?	Yes	No
Wetland Hydrology Present?	Yes	No			
Hydric Soils Present?	Yes	No			

Remarks:

Drought conditions at site. At Wetland Delineation flag A-536.

DATA LOTTIVE

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project/Site: Project No: 36890 1-Oct-1999 Date: Applicant/Owner: NYS Office of General Syces. County: Seneca Richard S. Totino, Marc Bergeron Investigators: State: New York Plot ID: A-U-7

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 the reverse side)

(Yes) Community ID: UPL Transect ID: Yes (No) Field Location: (No) Yes

At Wetland Delineation flag A-536.

VEGETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Elaeagnus angustifolia	Shrub	FACU	Phleum pratense	Herb	FACU
Olive, Russian			Timothy	7	
Cornus foemina	Shrub	FAC	Hieracium gronovii	Herb U	
Dogwood,Stiff	1		Hawkweed, Gronov's		
Solidago odora	Herb	NI	Sonchus oleraceus	Herb	UPL
Goldenrod, Sweet			Sowthistle,Common	7	
Solidago altissima	Herb	FACU-	Fragaria virginiana	Herb	FACU
Golden-Rod, Tall			Strawberry, Virginia	1	
Daucus carota	Herb	NI			
Wild Carrot					
	<u></u>				
Percent of Dominant Species that are OBI	_, FACW o	r FAC:	FAC Neutral: 0/6 = 0.00%		
(excluding FAC-) $1/7 = 14.29\%$			Numeric Index: $29/7 = 4.14$		

Remarks:

No trees, saplings or vines present.

HYDROLOGY

marks):	Wetland Hydrology Indicators	
ıge	Primary Indicators	
	NO Inundated	
	NO Saturated in Upper 12 Inches	
	NO Water Marks	
	NO Drift Lines	
	NO Sediment Deposits	
	NO Drainage Patterns in Wetlands	
	Secondary Indicators (2 or more required):	
N/A (in.)	NO Oxidized Root Channels in Upper 12 Inches	
NI/A //- >	NO Water-Stained Leaves	
IN/A (In.)	NO Local Soil Survey Data	
N/A (in.)	NO FAC-Neutral Test	
	NO Other (Explain in Remarks)	
	N/A (in.) N/A (in.)	

Remarks:

Drought conditions.

Page 1 of 2 WetForm tm

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ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron Project No: 36890

1-Oct-1999

County: Seneca State: New York

Plot ID: A-U-7

SOILS

Investigators:

Map Unit Name (Series and Phase): Darien silt loam

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs

Map Symbol: DaA Drainage Class: somewhat poorly drained Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes (No)

Date:

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, e
0-6	Α	10YR5/2	N/A	N/A	N/A	Silty clay loam
6-18+	Bw	10YR4/1	10YR5/3	Common	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Histic Epipedon NO Sulfidic Odor

NO Organic Streaking in Sandy Soils

NO Aquic Moisture Regime

NO Listed on Local Hydric Soils List

NO Reducing Conditions NO Gleyed or Low Chroma Colors NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes (No)	Is the Sampling Point within the Wetland?	Yes (No)	
Wetland Hydrology Present?	Yes No			
Hydric Soils Present?	Yes (No)			

Remarks:

Drought conditions at site. At Wetland Delineation flag A-536.

501	LITINE M	UAIA VETLANI		DAMBIA TIONI			
				RMINATION Ition Manual)			
Project/Site: Seneca Army Depot Applicant/Owner: NYS Office of General Svo Investigators: Richard S. Totino, Marc Be	ces.			oject No: 36890	Date: 1-0 County: Se State: Ne Plot ID: A-V	w York	
Do Normal Circumstances exist on the site Is the site significantly disturbed (Atypical Is the area a potential Problem Area? (If needed, explain on the reverse side)		i:)? Y	es No es No	Community ID: WE Transect ID: Field Location: At Wetland Delineatio			
VEGETATION	((JSFWS Re	gion No.	1)			
Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Spe	ecies(Latin/Common)		Stratum	Indicator
Typha latifolia Cattail,Broad-Leaf	Herb	OBL	<i>Agrostis a</i> Redtop	alba		Herb	FACW
Lythrum salicaria Loosestrife,Purple	Herb	FACW+	Cornus fo Dogwood			Herb	FAC
Scirpus atrovirens Bulrush,Green	Herb	OBL					

Percent of Dominant Species that are OBL, FACW or FAC:

FAC Neutral:

4/4 = 100.00%

(excluding FAC-) 5/5 = 100.00%

9/5 = 1.80Numeric Index:

Remarks:

No trees, saplings or vines present.

HYDROLOGY

NO Recorded Data(Describe in Remarks):		Wetland Hydrology Indicators
N/A Stream, Lake or Tide Gau	ge	Primary Indicators
N/A Aerial Photographs		NO Inundated
<u>N/A</u> Other		NO Saturated in Upper 12 Inches
VES No Becorded Date		NO Water Marks
YES No Recorded Data		NO Drift Lines
		NO Sediment Deposits
Field Observations		NO Drainage Patterns in Wetlands
		Secondary Indicators (2 or more required):
Depth of Surface Water:	N/A (in.)	YES Oxidized Root Channels in Upper 12 Inches
	NI/A //)	NO Water-Stained Leaves
Depth to Free Water in Pit:	N/A (in.)	NO Local Soil Survey Data
Depth to Saturated Soil:	N/A (in.)	YES FAC-Neutral Test
Depth to Saturated Son.	(111.)	NO Other (Explain in Remarks)

Remarks:

Drought conditions at site.

Page 1 of 2 WetForm tm

DATA COUNT

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: 36890 Date: 1-Oct-1999 Applicant/Owner: NYS Office of General Svces. County: Seneca Richard S. Totino, Marc Bergeron State: New York Investigators: Plot ID: A-W-8

SOILS

Map Unit Name (Series and Phase): Ilion silty clay loam

Drainage Class: poorly drained Map Symbol: Is

Taxonomy (Subgroup): mesic Mollic Endoaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes No

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)		ottle ce/Contrast	Texture, Concretions, Structure, etc
0-10	Α	10YR2/1	10YR3/3	Few	Faint	Silty clay loam
10-18+	В	10YR5/1	10YR5/6	Many	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime YES Reducing Conditions

YES Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils YES Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	(Yes) No	Is the Sampling Point within the Wetland?	Yes No	
Wetland Hydrology Present?	(Yes) No			
Hydric Soils Present?	(Yes) No			

Remarks:

Drought conditions at site. At Wetland Delineation flag A-583.

DATA FUNIV

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Investigators:

Seneca Army Depot

Applicant/Owner: NYS Office of General Syces.

Richard S. Totino, Marc Bergeron

Project No: 36890

1-Oct-1999 Date:

County: Seneca State: New York Plot ID: A-U-8

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 the reverse side)

Yes) Yes

Yes

Νo (No) (No

Community ID: UPL

Transect ID: Field Location:

At Wetland Delineation flag A-583.

VEGETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Cornus stolonifera			Solidago altissima	Herb	FACU-
Dogwood,Red-Osier	7		Golden-Rod,Tall		
Vitis aestivalis	Vine	FACU	Phleum pratense	Herb	FACU
Grape,Summer	1		Timothy		
Agrostis alba	Herb	FACW	Cornus stolonifera	Herb	FACW+
Redtop	7		Dogwood,Red-Osier		
	1				
	1				
	1				
	1				

Percent of Dominant Species that are OBL, FACW or FAC: 3/6 = 50.00%

(excluding FAC-)

FAC Neutral:

3/6 = 50.00%

Numeric Index: 18/6 = 3.00

Remarks:

No trees or saplings present.

HYDROLOGY

NO Recorded Data(Describe in Remarks):

N/A Stream, Lake or Tide Gauge

N/A Aerial Photographs

N/A Other

YES No Recorded Data

Field Observations

Depth of Surface Water:

Depth to Free Water in Pit:

N/A (in.)

Depth to Saturated Soil:

N/A (in.)

N/A (in.)

Wetland Hydrology Indicators

Primary Indicators

NO Inundated

NO Saturated in Upper 12 Inches

NO Water Marks

NO Drift Lines

NO Sediment Deposits

NO Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

NO Oxidized Root Channels in Upper 12 Inches

NO Water-Stained Leaves

NO Local Soil Survey Data

NO FAC-Neutral Test

NO Other (Explain in Remarks)

Remarks:

Drought conditions at site.

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot

Applicant/Owner: NYS Office of General Svces. Investigators: Richard S. Totino, Marc Bergeron Project No: 36890

Date: 1-Oct-1999 County: Seneca State: New York Plot ID: A-U-8

SOILS

Map Unit Name (Series and Phase): Darien silt loam

Map Symbol: DaA Drainage Class: somewhat poorly drained

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes No

Profile Description

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mo: Abundance		Texture, Concretions, Structure, etc
0-8	Α	10YR5/3	10YR5/6	Few	Distinct	Silty clay loam
8-18+	Bw	10YR4/3	10YR5/6	Common	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor NO Aquic Moisture Regime **NO Reducing Conditions**

NO Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils NO Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes (No)	Is the Sampling Point within the Wetland?	Yes No	
Wetland Hydrology Present?	Yes No		. •	
Hydric Soils Present?	Yes No			

Remarks:

Drought conditions at site. At Wetland Delineation flag A-583.

DATA LOUISI

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: 36890 Date: 6-Oct-1999
Applicant/Owner: NYS Office of General Svces.
Investigators: Richard S. Totino, Marc Bergeron State: New York
Plot ID: A-W-9

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 the reverse side)

Yes No

(No

Community ID: WET

Transect ID: Field Location:

At Wetland Delineation flag A-630

VEGETATION

(USFWS Region No. 1)

Yes

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Onoclea sensibilis	Herb	FACW	Viburnum recognitum	Shrub	FACW-
Fern,Sensitive	1		Arrow-Wood, Northern		
Fraxinus pennsylvanica	Shrub	FACW	Cornus amomum	Shrub	FACW
Ash,Green	7		Dogwood,Silky		
Salix nigra	Shrub	FACW+	Vitis aestivalis	Vine	FACU
Willow,Black	7		Grape,Summer		
	1				
	1				
	1				
	1.				
	1				

Percent of Dominant Species that are OBL, FACW or FAC:

(excluding FAC-) 5/6 = 83.33%

FAC Neutral:

5/6 = 83.33%

Numeric Index: 14/6 = 2.33

Remarks:

No trees present, F. pennsylvanica occured as sapling.

HYDROLOGY

NO Recorded Data(Describe in Rem	narks):	Wetland Hydrology Indicators
N/A Stream, Lake or Tide Gau	ge	Primary Indicators
N/A Aerial Photographs		NO Inundated
<u>N/A</u> Other		NO Saturated in Upper 12 Inches
YES No Recorded Data		YES Water Marks
TES NO Recorded Data		<u>NO</u> Drift Lines
		NO Sediment Deposits
Field Observations		NO Drainage Patterns in Wetlands
		Secondary Indicators (2 or more required):
Depth of Surface Water:	N/A (in.)	YES Oxidized Root Channels in Upper 12 Inches
Double As Free Wester in Bis.	NI/A //-)	YES Water-Stained Leaves
Depth to Free Water in Pit:	N/A (in.)	NO Local Soil Survey Data
Depth to Saturated Soil:	N/A (in.)	YES FAC-Neutral Test
Bopin to Catalated Con.		NO Other (Explain in Remarks)

Remarks:

Drought conditions at site.

DATA FORM **ROUTINE WETLAND DETERMINATION**

(1987 COE Wetlands Delineation Manual)

P,roject/Site:

Seneca Army Depot

Project No: 36890

Date: 6-Oct-1999

Investigators:

Applicant/Owner: NYS Office of General Syces. Richard S. Totino, Marc Bergeron

County: Seneca

State: New York Plot ID: A-W-9

SOILS

Map Unit Name (Series and Phase): Ilion silty clay loam

Map Symbol: Is

Drainage Class: poorly drained Taxonomy (Subgroup): mesic Mollic Endoaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes (No)

Profile Description

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mot Abundance		Texture, Concretions, Structure, etc
0-6	Α	10YR3/1	N/A	N/A	N/A	Silty clay loam
6-18+	В	10YR5/2	10YR5/6	Common	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime YES Reducing Conditions

YES Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

YES Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

Some oxidized rhizosheres in A horizon.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	(Yes) No	Is the Sampling Point within the Wetland?	(Yes) No	
Wetland Hydrology Present?	Yes No			
Hydric Soils Present?	Yes No			

Remarks:

Drought conditions at site. At Wetland Delineation flag A-630.

DATA FUNIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Applicant/Owner: NYS Office of General Syces. Investigators: Richard S. Totino, Marc Bergeron Project No: 36890 Date: 6-Oct-1999 County: Seneca State: New York Plot ID: A-U-10

Do Normal Circumstances exist on the site?	
Is the site significantly disturbed (Atypical Situation	ation:)?
Is the area a potential Problem Area?	
(If needed, explain on the reverse side)	

Community ID: UPL Yes) Transect ID: (No) Yes Yes (No

Field Location: At Wetland Delineation flag A-630.

VEGETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Crataegus crus-galli	Shrub	FACU	Phleum pratense	Herb	FACU
Hawthorn, Cockspur	7		Timothy		
Fraxinus pennsylvanica	Shrub	FACW	Hieracium gronovii	Herb	UPL
Ash,Green			Hawkweed, Gronov's		
Cornus foemina	Shrub	FAC	Rudbeckia hirta	Herb	FACU-
Dogwood,Stiff			Susan,Black-Eyed		
Solidago altissima	Herb	FACU-	Daucus carota	Herb	NI
Golden-Rod,Tall			Wild Carrot		
	-				
					y .
					-
Descent of Deminent Species that are ODI	E4 014/	- 540	FAC November 1/6 -16 679/		

Percent of Dominant Species that are OBL, FACW or FAC:

(excluding FAC-) 2/7 = 28.57% FAC Neutral:

Wetland Hydrology Indicators

NO Inundated

NO Drift Lines

NO Water Marks

NO Sediment Deposits

Primary Indicators

1/6 = 16.67%

Numeric Index: 26/7 = 3.71

NO Saturated in Upper 12 Inches

NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required):

NO Oxidized Root Channels in Upper 12 Inches

Remarks:

No trees, vines or saplings present.

HYDROLOGY

NO Recorded Data(Describe in Remarks):

N/A Stream, Lake or Tide Gauge

N/A Aerial Photographs

N/A Other

YES No Recorded Data

Field Observations

Depth of Surface Water:

N/A (in.)

Depth to Free Water in Pit:

Depth to Saturated Soil:

N/A (in.)

N/A (in.)

NO Local Soil Survey Data

NO FAC-Neutral Test

NO Other (Explain in Remarks)

NO Water-Stained Leaves

Remarks:

Drought conditions at site.

UATA FURIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Seneca Army Depot

Project No: 36890

Date: 6-Oct-1999

Investigators:

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron

County: Seneca State: New York

Plot ID: A-U-10

SOILS

Map Unit Name (Series and Phase): Darien silt loam

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs

Drainage Class: somewhat poorly drained Map Symbol: DaA

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes (No)

Depth (inches) Horizon		Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle t) Abundance/Contrast		Texture, Concretions, Structure, etc
0-8	Α	10YR3/1	N/A	N/A	N/A	Silty clay loam
8-18+	В	10YR4/3	10YR5/6	Common	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Histic Epipedon NO Sulfidic Odor

NO Organic Streaking in Sandy Soils

NO Aquic Moisture Regime

NO Listed on Local Hydric Soils List NO Listed on National Hydric Soils List

NO Reducing Conditions NO Gleyed or Low Chroma Colors

NO Other (Explain in Remarks)

Remarks:

No oxidized rhizospheres. Some depletions in B horizon (10YR 5/1).

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No	Is the Sampling Point within the Wetland?	Yes No
Wetland Hydrology Present?	Yes No		
Hydric Soils Present?	Yes No		

Remarks:

Drought conditions at site. At Wetland Delineation flag A-630.

DATA FURIVI ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Investigators:

Seneca Army Depot

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron Project No: 36890

Date: 6-Oct-1999

County: Seneca State: New York Plot ID: A-W-10

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 the reverse side)

(Yes) Yes Yes

No (No)

(No)

Community ID: WET

Transect ID:

Field Location:

At Wetland Delineation flag A-689.

VEGETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Fraxinus pennsylvanica	Tree	FACW	Viburnum recognitum	Shrub	FACW-
Ash,Green	7	i .	Arrow-Wood, Northern		
Fraxinus pennsylvanica	Shrub	FACW	Cornus foemina	Shrub	FAC
Ash, Green	1		Dogwood, Stiff		
Crataegus crus-galli	Shrub	FACU	Onoclea sensibilis	Shrub	FACW
Hawthorn, Cockspur	1		Fern,Sensitive		
Acer saccharinum	Shrub	FACW			
Maple,Silver .					
					L

Percent of Dominant Species that are OBL, FACW or FAC:

(excluding FAC-)

6/7 = 85.71%

FAC Neutral:

5/6 = 83.33%

Numeric Index:

17/7 = 2.43

Remarks:

F. pennsylvannica occured as tree and sapling. No vines present.

HYDROLOGY

NO Recorded Data(Describe in Remarks):

N/A Stream, Lake or Tide Gauge

N/A Aerial Photographs

Depth of Surface Water:

Depth to Saturated Soil:

Depth to Free Water in Pit:

N/A Other

YES No Recorded Data

Field Observations

Wetland Hydrology Indicators

Primary Indicators

NO Inundated

NO Saturated in Upper 12 Inches

NO Water Marks

NO Drift Lines

NO Sediment Deposits

YES Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

YES Oxidized Root Channels in Upper 12 Inches

NO Water-Stained Leaves

NO Local Soil Survey Data

YES FAC-Neutral Test

NO Other (Explain in Remarks)

Remarks:

Drought conditions at site. Wetland has drainage patterns and stained areas. Hummocks present.

N/A (in.)

N/A (in.)

N/A (in.)

Page 1 of 2 WetForm tm

DATA FUNIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Investigators:

Seneca Army Depot

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron Project No: 36890

Date: 6-Oct-1999 County: Seneca

State: New York Plot ID: A-W-10

SOILS

Map Unit Name (Series and Phase): Ilion silty clay loam

Map Symbol: Is

Drainage Class: poorly drained

Taxonomy (Subgroup): mesic Mollic Endoaqualfs Profile Description

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes No.

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
0-6	Α	10YR2/1	N/A	N/A	N/A	Silty clay loam
6-18+	В	10YR5/1	10YR5/6	Many	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime YES Reducing Conditions

YES Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

YES Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

Oxidized rhizospheres present.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Is the Sampling Point within the Wetland?	Yes	No
Wetland Hydrology Present?	Yes	No			
Hydric Soils Present?	Yes	No			

Remarks:

Drought conditions at site. At Wetland Delineation flag A-689.

UAIA FURIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Seneca Army Depot

Applicant/Owner: NYS Office of General Svces.

Richard S. Totino, Marc Bergeron

Project No: 36890

Date: 6-Oct-1999

County: Seneca State: New York

Plot ID: A-U-10

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 the reverse side)

Yes) Yes

Yes

(No)

(No

Community ID: UPL

Transect ID:

Field Location:

At Wetland Delineation flag A-689.

VEGETATION

Investigators:

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato	
Crataegus crus-galli	Shrub	b FACU Daucus carota Her	Herb	NI		
Hawthorn, Cockspur			Wild Carrot			
Fraxinus pennsylvanica	Shrub	FACW	Phleum pratense	Herb	FACU	
Ash,Green			Timothy			
Cornus foemina	Shrub	FAC	Agrostis alba	Herb	FACW	
Dogwood, Stiff			Redtop			
Toxicodendron radicans	Herb F	Herb	FAC	Solidago altissima	Herb	FACU-
Ivy,Poison			Golden-Rod, Tail			
Percent of Dominant Species that are OBI	FACW o	r FAC:	FAC Neutral: 2/5 = 40.00%			

4/7 = 57.14%(excluding FAC-)

Numeric Index:

Wetland Hydrology Indicators

NO Inundated

NO Water Marks

NO Drift Lines

Primary Indicators

22/7 = 3.14

Remarks:

No trees, saplings or vines.

HYDROLOGY

NO Recorded Data(Describe in Remarks):

N/A Stream, Lake or Tide Gauge

N/A Aerial Photographs

N/A Other

YES No Recorded Data

Field Observations

Depth of Surface Water:

N/A (in.)

Depth to Free Water in Pit:

N/A (in.)

Depth to Saturated Soil:

N/A (in.)

NO Water-Stained Leaves NO Local Soil Survey Data

NO Sediment Deposits

NO FAC-Neutral Test

NO Other (Explain in Remarks)

NO Saturated in Upper 12 Inches

NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required):

NO Oxidized Root Channels in Upper 12 Inches

Remarks:

Less hummocky in this location (compared to A-W-10), No staining. Drought conditions at site.

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

Project/Site: Seneca Army Depot Project No: 36890 Date: 6-Oct-1999
Applicant/Owner: NYS Office of General Svces.
Investigators: Richard S. Totino, Marc Bergeron State: New York
Plot ID: A-U-10

SOILS

00120						
Map Sym	bol: DaA y (Subgrou		Darien silt loam somewhat poorly o hraaqualfs	drained		ped Hydric Inclusion? ervations Confirm Mapped Type? Yes No
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mo Abundance		Texture, Concretions, Structure, etc
0-6	A	10YR3/1	N/A	N/A	N/A	Silty clay loam
6-18+	В	10YR4/1	10YR5/6	Common	Distinct	Silty clay loam
Hydric S	NO Sulfi NO Aqui NO Redu	osol c Epipedon		NO High NO Org NO List NO List	anic Streak ed on Loca ed on Natio	Content in Surface Layer in Sandy Soils king in Sandy Soils Il Hydric Soils List onal Hydric Soils List In Remarks)

WETLAND DETERMINATION

Remarks:

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	Yes No Yes No	Is the Sampling Point within the Wetland?	res No
Remarks: Hydrophytic vegetation is present. No soil	s or hydrology. Drought con	ditions at site.	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

DATA FUNIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot

Applicant/Owner: NYS Office of General Svces.

Project No: 36890

Date: 6-Oct-1999 County: Seneca

Investigators:

VEGETATION

Richard S. Totino, Marc Bergeron

State: New York Plot ID: A-W-11

Do Normal Circumstances exist on the site?

Is the site significantly disturbed (Atypical Situation:)?

Is the area a potential Problem Area?

Yes Yes (No)

(Yes)

No

Community ID: WET

Transect ID: (No) Field Location:

At Wetland Delineation flag A-725.

(If needed, explain on the reverse side)

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Scirpus cyperinus	Herb	FACW+	Carex scoparia	Herb	FACW
Wool-Grass	1		Sedge,Pointed Broom		
Agrostis alba	Herb	FACW	Fraxinus pennsylvanica	Shrub	FACW
Redtop			Ash,Green		
Lythrum salicaria	Herb	FACW+	Cornus amomum	Shrub	FACW
Loosestrife, Purple			Dogwood,Silky		
Carex alopecoidea	Herb	FACW			
Sedge,Foxtail	<u> </u>				
	1				
	1				
	1				
	1				

7/7 = 100.00%(excluding FAC-)

14/7 = 2.00Numeric Index:

Remarks:

No trees, saplings or vines present.

HYDROLOGY

N/A Stream, Lake or Tide Gauge N/A Aerial Photographs N/A Other YES No Recorded Data Field Observations Primary Indicators NO Inundated NO Saturated in Upper 12 Inches NO Water Marks NO Drift Lines NO Sediment Deposits YES Drainage Patterns in Wetlands Secondary Indicators (2 or more required): NO Oxidized Root Channels in Upper 12 Inches	NO Recorded Data(Describe in Rem	arks):	Wetland Hydrology Indicators
N/A Other YES No Recorded Data Field Observations Depth of Surface Water: N/A Other NO Saturated in Upper 12 Inches NO Water Marks NO Drift Lines NO Sediment Deposits YES Drainage Patterns in Wetlands Secondary Indicators (2 or more required): N/A (in.) NO Oxidized Root Channels in Upper 12 Inches	N/A Stream, Lake or Tide Gaug	je	Primary Indicators
YES No Recorded Data NO Water Marks NO Drift Lines NO Sediment Deposits YES Drainage Patterns in Wetlands Secondary Indicators (2 or more required): NO Oxidized Root Channels in Upper 12 Inches	N/A Aerial Photographs		NO Inundated
NO Drift Lines NO D	N/A Other		NO Saturated in Upper 12 Inches
Field Observations NO Drift Lines NO Sediment Deposits YES Drainage Patterns in Wetlands Secondary Indicators (2 or more required): NO Oxidized Root Channels in Upper 12 Inches	VEC No Beauted Bate		NO Water Marks
Field Observations YES Drainage Patterns in Wetlands Secondary Indicators (2 or more required): N/A (in.) NO Oxidized Root Channels in Upper 12 Inches	TES No Recorded Data		NO Drift Lines
Secondary Indicators (2 or more required): N/A (in.) NO Oxidized Root Channels in Upper 12 Inches			NO Sediment Deposits
Depth of Surface Water: N/A (in.) NO Oxidized Root Channels in Upper 12 Inches	Field Observations		YES Drainage Patterns in Wetlands
			Secondary Indicators (2 or more required):
VEO W	Depth of Surface Water:	N/A (in.)	NO Oxidized Root Channels in Upper 12 Inches
YES Water-Stained Leaves		A1/A // .	YES Water-Stained Leaves
Depth to Free Water in Pit: N/A (in.) NO Local Soil Survey Data	Depth to Free Water in Pit:	N/A (in.)	NO Local Soil Survey Data
Porth to Seturated Seile N/A //a) YES FAC-Neutral Test	Don'th to Saturated Sails	NI/A /in \	YES FAC-Neutral Test
Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks)	Deptil to Saturated Soil:	IN/A (III.)	NO Other (Explain in Remarks)

Remarks:

Hummocky area. Water staining.

DATA FUHIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Seneca Army Depot

Project No: 36890

Date: 6-Oct-1999

Investigators:

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron

County: Seneca State: New York

Plot ID: A-W-11

SOILS

Map Unit Name (Series and Phase): Ilion silty clay loam

Taxonomy (Subgroup): mesic Mollic Endoaqualfs

Map Symbol: Is

Drainage Class: poorly drained

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes No

Profile Description

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)		ottle ce/Contrast	Texture, Concretions, Structure, etc
0-10	Α	10YR3/1	10YR5/6	N/A	N/A	Silty clay loam
10-18+	В	10YR5/1	10YR5/6	Many	Distinct	Silty clay

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime YES Reducing Conditions

YES Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

YES Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

Oxidized rhizospheres in A horizon.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	(Yes) No	Is the Sampling Point within the Wetland?	(Yes) No
Wetland Hydrology Present?	(Yes) No		
Hydric Soils Present?	(Yes) No		

Remarks:

Drought conditions at site. At Wetland Delineation flag A-725.

DATA FURIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Investigators:

Seneca Army Depot

Applicant/Owner: NYS Office of General Svces.

Richard S. Totino, Marc Bergeron

Project No: 36890

Date: 6-Oct-1999

County: Seneca State: New York Plot ID: A-U-11

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 the reverse side)

Yes Yes

Yes

No No No

Community ID: WET

Transect ID: Field Location:

At Wetland Delineation flag A-725.

VEGETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicate
Crataegus crus-galli	Shrub	FACU	Solidago altissima	Herb	FACU-
Hawthorn, Cockspur	7		Golden-Rod, Tall		
Cornus foemina	Shrub	FAC	Daucus carota	Herb	NI
Dogwood, Stiff	1		Wild Carrot		
Agrostis alba	Herb	FACW	Cirsium vulgare	Herb	FACU-
Redtop			Thistle,Bull		
Phleum pratense	Herb	FACU			
Timothy					·

Percent of Dominant Species that are OBL, FACW or FAC:

(excluding FAC-) 2/6 = 33.33%

FAC Neutral:

1/5 = 20.00%

Numeric Index: 21/6 = 3.50

Remarks:

No trees, saplings or vines present.

HYDROLOGY

NO Recorded Data(Describe in Remarks):

N/A Stream, Lake or Tide Gauge

N/A Aerial Photographs

N/A Other

YES No Recorded Data

Field Observations

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

Depth to Free Water in Pit:

N/A (in.)

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

Wetland Hydrology Indicators

Primary Indicators

NO Inundated

NO Saturated in Upper 12 inches

NO Water Marks

NO Drift Lines

NO Sediment Deposits

NO Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

NO Oxidized Root Channels in Upper 12 Inches

NO Water-Stained Leaves

NO Local Soil Survey Data

NO FAC-Neutral Test

NO Other (Explain in Remarks)

Remarks:

Drought conditions at site.

DATA FURIN

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project/Site:

Applicant/Owner: NYS Office of General Svces.

Richard S. Totino, Marc Bergeron

Project No: 36890

6-Oct-1999 Date: County: Seneca

State: New York Plot ID: A-U-11

SOILS

Investigators:

Map Unit Name (Series and Phase): Darien silt loam

Map Symbol: DaA Drainage Class: somewhat poorly drained

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes No

Profile Description

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mot Abundance		Texture, Concretions, Structure, etc
0-6	· A	10YR4/2	N/A	N/A	N/A	Silty clay loam
6-18+	В	10YR4/1	10YR5/6	Common	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime **NO Reducing Conditions**

NO Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

NO Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes (No)	Is the Sampling Point within the Wetland?	Yes (No)	
Wetland Hydrology Present?	Yes No			
Hydric Soils Present?	Yes No			

Remarks:

Remarks:

At Wetland Delineation flag A-725.

DATA CODIN

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: 36890 Date: 6-Oct-1999
Applicant/Owner: NYS Office of General Svces.
Investigators: Richard S. Totino, Marc Bergeron State: New York
Plot ID: A-W-12

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 the reverse side)

Ves No Yes VECETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Fraxinus pennsylvanica	Tree	FACW	Cornus amomum	Herb	FACW
Ash, Green			Dogwood,Silky		
Ulmus rubra	Tree	FAC	Toxicodendron radicans	Herb	FAC
Elm, Slippery	<u></u>		Ivy,Poison		
Crataegus crus-galli	Shrub	FACU	Polygonum virginianum	Herb	FAC
Hawthorn, Cockspur	<u> </u>		Knotweed, Virginia		
Cornus amomum	Shrub	FACW			
Dogwood, Silky	1				
	<u> </u>				
Percent of Dominant Species that are OBI (excluding FAC-) 6/7 = 85.71%	L, FACW o	r FAC:	FAC Neutral: 3/4 = 75.00% Numeric Index: 19/7 = 2.71		
Remarks: No vines present.					

HYDROLOGY

NO Recorded Data(Describe in Ren	narks):	Wetland Hydrology Indicators
N/A Stream, Lake or Tide Gau	ge	Primary Indicators
N/A Aerial Photographs		NO Inundated
<u>N/A</u> Other		NO Saturated in Upper 12 Inches
VES No Becarded Date		<u>YES</u> Water Marks
YES No Recorded Data		NO Drift Lines
		NO Sediment Deposits
Field Observations		YES Drainage Patterns in Wetlands
		Secondary Indicators (2 or more required):
Depth of Surface Water:	N/A (in.)	NO Oxidized Root Channels in Upper 12 Inches
Danata da Fina Wadan in Bida	N/A /:-)	NO Water-Stained Leaves
Depth to Free Water in Pit:	N/A (in.)	NO Local Soil Survey Data
Depth to Saturated Soil:	N/A (in.)	YES FAC-Neutral Test
Deptil to catalated soil.	(111.)	NO Other (Explain in Remarks)

Remarks:

Shallow root systems present. Drought conditions at site.

Page 1 of 2 WetForm to

DATA FURIVI ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Seneca Army Depot

Project No: 36890

6-Oct-1999 Date: County: Seneca

Investigators:

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron

State: New York Plot ID: A-W-12

SOILS

Map Unit Name (Series and Phase): Ilion silty clay loam

Map Symbol: Is Drainage Class: poorly drained Taxonomy (Subgroup): mesic Mollic Endoaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes No

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mo: Abundance		Texture, Concretions, Structure, etc
0-6	A	10YR4/1	10YR5/6	Common	Distinct	Silty clay loam
6-18+	В	10YR5/1	10YR5/6	Common	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime YES Reducing Conditions

YES Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils YES Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Is the Sampling Point within the Wetland?	Yes	No
Wetland Hydrology Present?	Yes	No			
Hydric Soils Present?	Yes	No			
Danisales					

Remarks:

Drought conditions at site:

DATA FUNIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot 6-Oct-1999 Project No: 36890 Date: Applicant/Owner: NYS Office of General Svces. County: Seneca Richard S. Totino, Marc Bergeron Investigators: State: New York Plot ID: A-U-12

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 the reverse side)

Yes Yes

No (No) (No Yes

Community ID: UPL

Transect ID: Field Location:

At Wetland Delineation flag A-764.

VEGETATION

(USFWS Region No. 1)

			9101111011/		
Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Crataegus crus-galli	Shrub	FACU	Vitis aestivalis	Vine	FACU
Hawthorn, Cockspur	1		Grape,Summer		
Toxicodendron radicans	Herb	FAC			
Ivy,Poison					
	1				
	-			_	
Percent of Dominant Species that are OBL	EACW a	. EAC:	FAC Neutral: 0/2 = 0.00%		

(excluding FAC-) 1/3 = 33.33%

NO Recorded Data(Describe in Remarks):

Numeric Index:

Wetland Hydrology Indicators

11/3 = 3.67

Remarks:

No trees or saplings present.

HYDROLOGY

ì	110 Hecorded Data(Describe III Hellis	ai No).	Wetland Hydrology Indicators
Ì	<u>N/A</u> Stream, Lake or Tide Gaug	е	Primary Indicators
	N/A Aerial Photographs		NO Inundated
1	<u>N/A</u> Other		NO Saturated in Upper 12 Inches
1	VEC No Bosondad Boto		NO Water Marks
1	YES No Recorded Data		NO Drift Lines
			NO Sediment Deposits
	Field Observations		NO Drainage Patterns in Wetlands
ļ			Secondary Indicators (2 or more required):
Ì	Depth of Surface Water:	N/A (in.)	NO Oxidized Root Channels in Upper 12 Inches
Į		AUA	NO Water-Stained Leaves
	Depth to Free Water in Pit:	N/A (in.)	NO Local Soil Survey Data
Į	Depth to Saturated Soil:	N/A (in.)	NO FAC-Neutral Test
	Depth to Saturated Soil.	14/A (III.)	NO Other (Explain in Remarks)

Remarks:

Drought conditions at site.

Page 1 of 2 WelForm m

UATA FURIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Applicant/Owner: NYS Office of General Syces. Richard S. Totino, Marc Bergeron Investigators:

Project No: 36890 Date: 6-Oct-1999 County: Seneca State: New York

Plot ID: A-U-12

SOILS

Map Unit Name (Series and Phase): Darien silt loam

Drainage Class: somewhat poorly drained Map Symbol: DaA

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	****	e/Contrast	Texture, Concretions, Structure, e
0-12	A	10YR4/1	N/A	N/A	N/A	Silty clay loam
12-18+	Bw	10YR5/1	N/A	N/A	N/A	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime NO Reducing Conditions

NO Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

NO Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

No mottles.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No	Is the Sampling Point within the Wetland?	Yes No
Wetland Hydrology Present?	Yes No		
Hydric Soils Present?	Yes No		

Remarks:

Drought conditions at site. Berm structure present at Wetland boundary. Data point is on berm. At Wetland Delineation flag A-764.

UATA FURIVI

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site:

Investigators:

Seneca Army Depot

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron Project No: 36890

Date: 6-Oct-1999

County: Seneca State: New York Plot ID: A-W-13

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 the reverse side)

(Yes)

No (No) Yes Yes (No) Community ID: WET

Transect ID: Field Location:

At Wetland Delineation flag A-818.

VEGETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)		Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Populus deltoides	Tree	FAC	Solidago altissima	Herb	FACU-
Cotton-Wood, Eastern	1	İ	Golden-Rod,Tall	7	
Fraxinus pennsylvanica	Tree	FACW	Phleum pratense	Herb	FACU
Ash,Green	1	Í	Timothy	<u> </u>	
Cornus stolonifera	Shrub	FACW+	Fraxinus pennsylvanica	Herb	FACW
Dogwood,Red-Osier			Ash,Green		L
Carex vulpinoidea	Herb	OBL			
Sedge,Fox					
	.			_	

Percent of Dominant Species that are OBL, FACW or FAC:

(excluding FAC-)

5/7 = 71.43%

FAC Neutral:

4/6 = 66.67%

Numeric Index:

18/7 = 2.57

Remarks:

No saplings or vines present.

HYDROLOGY

NO Recorded Data(Describe in Remarks):

N/A Stream, Lake or Tide Gauge

N/A Aerial Photographs

N/A Other

YES No Recorded Data

Field Observations

Depth of Surface Water:

N/A (in.)

Depth to Free Water in Pit:

Depth to Saturated Soil:

N/A (in.)

N/A (in.)

Wetland Hydrology Indicators

Primary Indicators

NO Inundated

NO Saturated in Upper 12 Inches

NO Water Marks

NO Drift Lines

NO Sediment Deposits

NO Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

YES Oxidized Root Channels in Upper 12 Inches

YES Water-Stained Leaves

NO Local Soil Survey Data

YES FAC-Neutral Test

YES Other (Explain in Remarks)

Remarks:

Other = elevated root systems, moss layer on trees.

Drought conditions at site.

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

Seneca Army Depot Project/Site: Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Marc Bergeron Investigators:

Project No: 36890

Date: 6-Oct-1999 County: Seneca

State: New York Plot ID: A-W-13

SOILS

Map Unit Name (Series and Phase): llion silty clay loam Map Symbol: Is

Drainage Class: poorly drained Taxonomy (Subgroup): mesic Mollic Endoaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes (No)

Profile Description

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mot Abundance		Texture, Concretions, Structure, etc
0-1	Oi	10YR3/3	N/A	N/A	N/A	Silty clay loam
1-10	В	10YR4/3	N/A	N/A	N/A	Silty clay loam
10-18+	В	10YR4/1	10YR4/4	Common	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime NO Reducing Conditions

YES Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

YES Listed on Local Hydric Soils List NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

Oi = least decomposed; organic layer consisted of peat.

WETLAND DETERMINATION

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

Is the Sampling Point within the Wetland?

(Yes) No

Remarks:

Drought conditions at site. At Wetland Delineation flag A-818.

RO	UTINE \		D DETE	RMINATION			
(198	7 COE I	Vetlands	Delinea	ation Manual)			
Project/Site: Seneca Army Depot Applicant/Owner: NYS Office of General Sv Investigators: Richard S. Totino, Marc B		Co			Date: 6-Oct-1999 County: Seneca State: New York Plot ID: A-U-13		
Do Normal Circumstances exist on the sit is the site significantly disturbed (Atypica is the area a potential Problem Area? (If needed, explain on the reverse side)	l Situation	n:)? Ÿ Y	es No es No	Community ID: UPU Transect ID: Field Location: At Wetland Delineation			
VEGETATION		USFWS Re				1	
Dominant Plant Species(Latin/Common) Daucus carota Wild Carrot	Stratum Herb	Indicator Ni	Solidago			Stratum Herb	Indicator FACW
Euthamia graminifolia Fragrant-Golden-Rod,Flat-Top	Herb	FAC	Golden-Rod, Giant Fraxinus pennsylvanica Ash, Green			Tree	FACW
Cornus foemina Dogwood,Stiff	Shrub	FAC	Populus deltoides Cotton-Wood,Eastern			Tree	FAC
Crataegus crus-galli Hawthorn,Cockspur	Shrub	FACU					
Percent of Dominant Species that are OBL (excluding FAC-) 5/6 = 83.33%	, FACW o	or FAC:		eutral: 2/3 = 66.6 ic Index: 17/6 = 2			
Remarks:							

HYDROLOGY

NO Recorded Data(Describe in Ren	narks):	Wetland Hydrology Indicators
N/A Stream, Lake or Tide Gau	ge	Primary Indicators
N/A Aerial Photographs		NO Inundated
<u>N/A</u> Other		NO Saturated in Upper 12 Inches
YES No Recorded Data		NO Water Marks
TES NO Recorded Data		NO Drift Lines
		NO Sediment Deposits
Field Observations		NO Drainage Patterns in Wetlands
		Secondary Indicators (2 or more required):
Depth of Surface Water:	N/A (in.)	NO Oxidized Root Channels in Upper 12 Inches
Sanda da Francisco Bib	NI/A //)	NO Water-Stained Leaves
Depth to Free Water in Pit:	N/A (in.)	NO Local Soil Survey Data
Depth to Saturated Soil:	N/A (in.)	YES FAC-Neutral Test
Depth to Calculated Son.		NO Other (Explain in Remarks)

Remarks:

Drought conditions at site.

DATA CUDIN

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Seneca Army Depot

Project No: 36890

6-Oct-1999 Date: County: Seneca

Applicant/Owner: NYS Office of General Svces. Investigators:

Profile Description

Richard S. Totino, Marc Bergeron

State: New York Plot ID: A-U-13

SOILS

Map Unit Name (Series and Phase): Darien silt loam

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs

Map Symbol: DaA Drainage Class: somewhat poorly drained Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes (No)

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)		ottle ce/Contrast	Texture, Concretions, Structure, etc
0-12	A	10YR5/1	N/A	N/A	N/A	Silt loam
12-18+	В	10YR4/1	10YR5/4	Few	Distinct	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime **NO Reducing Conditions**

NO Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

NO Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?		Is the Sampling Point within the Wetland?	Yes No
Wetland Hydrology Present?	Yes No		
Hydric Soils Present?	Yes No		

Remarks:

Drought conditions at site. At Wetland Delineation flag A-818.

UATA FURIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project/Site: Project No: 36890 6-Oct-1999 Date: Applicant/Owner: NYS Office of General Svces. County: Seneca Richard S. Totino, Terry Ramborger Investigators: State: New York Plot ID: A-W-14

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 the reverse side)

(Yes) Yes

Yes

No (No)

(No)

Community ID: WET

Transect ID: Field Location:

At Wetland Delineation flag A-878.

VEGETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Phragmites australis	Herb	FACW	Solidago gigantea	Herb	FACW
Reed,Common	<u> </u>		Golden-Rod, Giant	1	
Cornus foemina	Herb	FAC	Trifolium repens	Herb	FACU-
Dogwood,Stiff			Clover,White	<u> </u>	
Fraxinus pennsylvanica	Herb	FACW			
Ash,Green	<u> </u>				
]	
	<u> </u>				
	L				
]]	
Percent of Deminant Species that are ORI	FACW	" EAC.	EAC Noutrals 3/4 - 75 00%		

Percent of Dominant Species that are OBL, FACW or FAC:

(excluding FAC-) 4/5 = 80.00% FAC Neutral: Numeric Index: 13/5 = 2.60

3/4 = 75.00%

Remarks:

No trees, saplings or vines present.

HYDROLOGY

NO Recorded Data(Describe in Rer	narks):	Wetland Hydrology Indicators
N/A Stream, Lake or Tide Gau	ge	Primary Indicators
N/A Aerial Photographs		NO Inundated
N/A Other		NO Saturated in Upper 12 Inches
YES No Recorded Data		NO Water Marks
123 No Recorded Data		NO Drift Lines
		NO Sediment Deposits
Field Observations		NO Drainage Patterns in Wetlands
		Secondary Indicators (2 or more required):
Depth of Surface Water:	N/A (in.)	NO Oxidized Root Channels in Upper 12 Inches
	A1/A //)	NO Water-Stained Leaves
Depth to Free Water in Pit:	N/A (in.)	NO Local Soil Survey Data
Depth to Saturated Soil:	N/A (in.)	YES FAC-Neutral Test
Depth to Saturated Soil.	(111.)	NO Other (Explain in Remarks)

Remarks:

Page 1 of 2 WetForm ™

DATA FURIM

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Seneca Army Depot

Project No: 36890

Date: 6-Oct-1999 County: Seneca

Investigators:

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Terry Ramborger

State: New York Plot ID: A-W-14

SOILS

Map Unit Name (Series and Phase): Ilion silty clay loam Drainage Class: poorly drained Map Symbol: Is

Taxonomy (Subgroup): mesic Mollic Endoaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes (No.

Profile Description

Depth (Inches)	Horizon		Mottle Color (Munsell Moist)		ttle e/Contrast	Texture, Concretions, Structure, etc
0-0	Α	N/A	N/A	N/A	N/A	Silty clay loam

Hydric Soil Indicators:

NO Histosol **NO Concretions** NO Histic Epipedon NO High Organic Content in Surface Layer in Sandy Soils NO Sulfidic Odor NO Organic Streaking in Sandy Soils NO Aquic Moisture Regime YES Listed on Local Hydric Soils List **NO Reducing Conditions** NO Listed on National Hydric Soils List

NO Gleyed or Low Chroma Colors NO Other (Explain in Remarks)

Remarks:

No soils sampled. Plot is located in former lagoon area; disturbed soils, gravel, crushed stone. - Advised not to sample due to possible hazardous material area (NYSOGS). Profile description for software purposes only.

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Wetland Hydrology Present?	Yes No	Is the Sampling Point within the Wetland?	Yes No
Hydric Soils Present?	Yes No		

Remarks:

Former lagoon/bog area. Approx. 40-50 ft. West of stand-up piping system in lagoon. No soils sampled, no confirmatory hydrology data.

DATA FURIVI ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: 36890 Applicant/Owner: NYS Office of General Svces.

Richard S. Totino, Terry Ramborger

Date: 6-Oct-1999 County: Seneca State: New York Plot ID: A-U-14

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 the reverse side)

(Yes) No Yes (No) Yes (No)

Community ID: UPL

Transect ID: Field Location:

At Wetland Delineation flag A-878.

VEGETATION

Investigators:

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)		Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Daucus carota	Herb	NI	Oenothera biennis	Herb	FACU-
Wild Carrot	<u></u>		Evening-Primrose,Common		
Cornus foemina	Herb	FAC	Hieracium gronovii	Herb	UPL
Dogwood, Stiff	•		Hawkweed,Gronov's		
Percent of Dominant Species that are OBL	FACW o	r FAC:	FAC Neutral: $0/2 = 0.00\%$		

1/3 = 33.33% (excluding FAC-)

Numeric Index: 12/3 = 4.00

Remarks:

Flowers (Herb) showing stunted growth.

HYDROLOGY

NO Recorded Data(Describe in Ren	narks):	Wetland Hydrology Indicators
N/A Stream, Lake or Tide Gau	ge	Primary Indicators
<u>N/A</u> Aerial Photographs		NO Inundated
<u>N/A</u> Other		NO Saturated in Upper 12 Inches
YES No Recorded Data		NO Water Marks
123 No Recorded Data		NO Drift Lines
I		NO Sediment Deposits
Field Observations		NO Drainage Patterns in Wetlands
		Secondary Indicators (2 or more required):
Depth of Surface Water:	N/A (in.)	NO Oxidized Root Channels in Upper 12 Inches
B	NI/A //)	NO Water-Stained Leaves
Depth to Free Water in Pit:	N/A (in.)	NO Local Soil Survey Data
Depth to Saturated Soil:	N/A (in.)	NO FAC-Neutral Test
Deptil to Saturated Soil.	(111.)	NO Other (Explain in Remarks)

Remarks:

No confirmatory hydrology data available. Drought conditions at site.

Page 1 of 2 WetForm ^{₹™}

DATAFURIVI ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project/Site:

Project No: 36890

Date: 6-Oct-1999

Investigators:

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Terry Ramborger

County: Seneca State: New York Plot ID: A-U-14

SOILS

Map Unit Name (Series and Phase): Darien silt loam

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs

Map Symbol: DaA Drainage Class: somewhat poorly drained Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes (No)

Profile Description

Inches) Horizon (Muns	sell Moist) (Munsell Moist)	Abundance/Contrast Tex	cture, Concretions, Structure, etc
0-0 A	N/A N/A	N/A N/A Silty	y clay loam

NO Histosol NO Histic Epipedon **NO Sulfidic Odor** NO Aquic Moisture Regime **NO Reducing Conditions**

NO Concretions NO High Organic Content in Surface Layer in Sandy Soils NO Organic Streaking in Sandy Soils

NO Listed on Local Hydric Soils List NO Listed on National Hydric Soils List NO Other (Explain in Remarks)

NO Gleyed or Low Chroma Colors

Remarks:

No soils sampled. Former lagoon area. Advised not to sample due to possible hazardous materials (NYSOGS).

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No	Is the Sampling Point within the Wetland?	Yes No
Wetland Hydrology Present?	Yes No		
Hydric Soils Present?	Yes No		

Remarks:

Former lagoon/bog area.

DATA CODIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project/Site:

Applicant/Owner: NYS Office of General Svces. Investigators:

Richard S. Totino, Terry Ramborger

Project No: 36890

7-Oct-1999 Date: County: Seneca

State: New York Plot ID: A-W-15

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 the reverse side)

(Yes) Yes

Yes

No (No)

(No

Community ID: WET

Transect ID: Field Location:

At Wetland Delineation flag A-943.

VEGETATION

(USFWS Region No. 1)

Tree	FACW-	Plant Species(Latin/Common)	Stratum	
	IFACVV-	Vitis riparia		FACW
		Grape, River-Bank		
Tree	FAC	Fraxinus pennsylvanica	Herb	FACW
1		Ash,Green		
Tree	FACW+	Solidago altissima	Herb	FACU-
1		Golden-Rod,Tall		
Shrub	FACW+	Carex sp.	Herb	NI
L		Sedge, No Species Id		
Shrub	FAC	Oxalis corniculata	Herb	FACU
		Woodsorrel, Creeping		
Shrub	FAC	Prunella vulgaris	Herb	FACU+
		Heal-All		
Shrub	FACW	Toxicodendron radicans	Herb	FAC
1		Ivy,Poison		
Shrub	FACW+			
	Tree Shrub Shrub Shrub Shrub	Tree FACW+ Shrub FAC Shrub FAC Shrub FAC Shrub FAC	Tree FAC Fraxinus pennsylvanica Ash, Green Ash, Green Tree FACW+ Solidago altissima Golden-Rod, Tall Golden-Rod, Tall Shrub FACW+ Carex sp. Sedge, No Species Id Shrub FAC Oxalis corniculata Woodsorrel, Creeping Shrub FAC Prunella vulgaris Heal-All Shrub FACW Toxicodendron radicans Ivy, Poison	Tree FAC Fraxinus pennsylvanica Ash, Green Herb Tree FACW+ Solidago altissima Golden-Rod, Tall Herb Shrub FACW+ Carex sp. Sedge, No Species Id Herb Shrub FAC Oxalis corniculata Woodsorrel, Creeping Herb Shrub FAC Prunella vulgaris Heal-All Herb Shrub FACW Toxicodendron radicans Ivy, Poison Herb

Percent of Dominant Species that are OBL, FACW or FAC:

(excluding FAC-) 11/14 = 78.57% FAC Neutral:

7/10 = 70.00%

38/14 = 2.71Numeric Index:

Remarks:

Woody scrub/shrub wet area.

HYDROLOGY

NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators

N/A (in.)

N/A (in.)

N/A (in.)

N/A Stream, Lake or Tide Gauge

N/A Aerial Photographs

Depth of Surface Water:

Depth to Saturated Soil:

Depth to Free Water in Pit:

N/A Other

YES No Recorded Data

Field Observations

Primary Indicators NO Inundated

NO Saturated in Upper 12 Inches

NO Water Marks

NO Drift Lines

NO Sediment Deposits

NO Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

YES Oxidized Root Channels in Upper 12 Inches

NO Water-Stained Leaves

NO Local Soil Survey Data

YES FAC-Neutral Test

NO Other (Explain in Remarks)

Remarks:

Drought conditions at site.

Page 1 of 2 WetForm tm

DATA FURIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Investigators:

Seneca Army Depot

Applicant/Owner: NYS Office of General Svces.

Richard S. Totino, Terry Ramborger

Project No: 36890

Date: 7-Oct-1999

County: Seneca State: New York

Plot ID: A-W-15

SOILS

Map Unit Name (Series and Phase): Ilion silty clay loam

Drainage Class: poorly drained Map Symbol: Is Taxonomy (Subgroup): mesic Mollic Endoaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes (No)

Profile Description

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)		ttle e/Contrast	Texture, Concretions, Structure, etc
0-3	Α	10YR4/1	N/A	N/A	N/A	Silty clay loam
3-18+	В	10YR3/1	10YR3/4	Many	Faint	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime **NO Reducing Conditions**

YES Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

YES Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	(Yes) N	lo	Is the Sampling Point within the Wetland?	(Yes)	No
Wetland Hydrology Present?	Yes N	lo			
Hydric Soils Present?	(Yes) N	lo			

Remarks:

Drought conditions at site. At Wetland Delineation flag A-943.

DATA FURIVI ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project/Site:

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Terry Ramborger Project No: 36890

6-Oct-1999 Date: County: Seneca

State: New York Plot ID: A-U-15

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 the reverse side)

(Yes)

No (No) Yes (No) Yes

Community ID: UPL

Transect ID: Field Location:

At Wetland Delineation flag A-943.

VEGETATION

Investigators:

(USFWS Region No. 1)

YEGETATION			rgioni ito: i/		
Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Cornus foemina	Shrub	FAC	Phleum pratense	Herb	FACU
Dogwood, Stiff	1		Timothy		
Fraxinus pennsylvanica	Shrub	FACW	Melilotus alba	Herb	FACU-
Ash, Green	1	İ	Sweetclover,White	1	
Vitis riparia	Vine	FACW	Oxalis montana	Herb	FAC-
Grape, River-Bank			Woodsorrel,White		
Solidago altissima	Herb	FACU-			
Golden-Rod,Tall	1				
				_	
				4	
				-	
	<u> </u>	L	7500 November 2015 40 009/		

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

3/7 = 42.86%

2/5 = 40.00%FAC Neutral: Numeric Index: 22/7 = 3.14

Remarks:

No trees, saplings present.

YES No Recorded Data

Depth of Surface Water:

Depth to Saturated Soil:

Depth to Free Water in Pit:

Field Observations

HYDROLOGY

Wetland Hydrology Indicators NO Recorded Data(Describe in Remarks): N/A Stream, Lake or Tide Gauge **Primary Indicators** NO Inundated N/A Aerial Photographs N/A Other

N/A (in.)

N/A (in.)

N/A (in.)

NO Saturated in Upper 12 Inches

NO Water Marks NO Drift Lines

NO Sediment Deposits

NO Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

NO Oxidized Root Channels in Upper 12 Inches

NO Water-Stained Leaves NO Local Soil Survey Data

NO FAC-Neutral Test

NO Other (Explain in Remarks)

Remarks:

Drought conditions at site.

Page 1 of 2 WetForm m

DATA FUHIVI **ROUTINE WETLAND DETERMINATION**

(1987 COE Wetlands Delineation Manual)

Project/Site:

Seneca Army Depot

Project No: 36890

6-Oct-1999

Applicant/Owner: NYS Office of General Svces. Investigators:

Profile Description

Richard S. Totino, Terry Ramborger

State: New York

Date:

County: Seneca

Plot ID: A-U-15

SOILS

Map Unit Name (Series and Phase): Darien silt loam

Drainage Class: somewhat poorly drained Map Symbol: DaA

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes (No.

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mot Abundance		Texture, Concretions, Structure, etc
0-4	Α	10YR3/2	N/A	N/A	N/A	Silty clay loam
4-18+	В	10YR4/1	10YR4/4	Common	Faint	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime NO Reducing Conditions

NO Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

NO Listed on Local Hydric Soils List

NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No	Is the Sampling Point within the Wetland?	Yes No
Wetland Hydrology Present?	Yes No		
Hydric Soils Present?	Yes No		

Remarks:

At Wetland Delineation flag A-943. Drought conditions at site.

DATA LOUIS

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

7-Oct-1999 Seneca Army Depot Date: Project/Site: Project No: 36890 Applicant/Owner: NYS Office of General Svces. County: Seneca Richard S. Totino, Terry Ramborger State: New York Investigators: Plot ID: A-W-16

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 the reverse side)

(Yes) (No) Yes

(No

Community ID: WET

Transect ID: Field Location:

At Wetland Delineation flag A-258.

VEGETATION

(USFWS Region No. 1)

Yes

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Quercus bicolor	Tree	FACW+	Lysimachia nummularia	Herb	OBL
Oak,Swamp White			Jennie,Creeping		
Robinia pseudoacacia	Tree	FACU-	Polygonum hydropiper	Herb	OBL
Locust, Black			Smartweed, Marshpepper		
Ostrya virginiana	Shrub	FACU-	Toxicodendron radicans	Herb	FAC
Hop-Hornbeam, Eastern	7		lvy,Poison		L
Ulmus rubra	Shrub	FAC	Rhamnus alnifolia	Herb	OBL
Elm,Slippery]		Buckthorn,Alder-Leaf		
	-				
	<u> </u>				
	-				
Derecht of Deminant Species that are ORI	FACW -	* EAC:	EAC Noutral: 4/6 - 66 67%		

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

6/8 = 75.00%

FAC Neutral:

4/6 = 66.67%

Numeric Index:

19/8 = 2.38

Remarks:

Floodplain area. O. virginiana occured as sapling.

HYDROLOGY

NO Recorded Data(Describe in Rei	marks):	Wetland Hydrology Indicators	ı
N/A Stream, Lake or Tide Gau	ıge	Primary Indicators	- 1
N/A Aerial Photographs		NO Inundated	ŀ
N/A Other		NO Saturated in Upper 12 Inches	
VES No Booseded Boto		NO Water Marks	
YES No Recorded Data		YES Drift Lines	ŀ
		NO Sediment Deposits	1
Field Observations		NO Drainage Patterns in Wetlands	
		Secondary Indicators (2 or more required):	I
Depth of Surface Water:	N/A (in.)	NO Oxidized Root Channels in Upper 12 Inches	
Double to Fine Meter in Dia	NI/A /:- \	NO Water-Stained Leaves	
Depth to Free Water in Pit:	N/A (in.)	NO Local Soil Survey Data	
Depth to Saturated Soil:	N/A (in.)	YES FAC-Neutral Test	
Dept., to Catalated Coll.	(111.)	NO Other (Explain in Remarks)	

Remarks:

Drought conditions at site.

Page 1 of 2 WelForm m

DATA FURIVI

ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Seneca Army Depot

Project No: 36890

Date: 7-Oct-1999 County: Seneca

Investigators:

Applicant/Owner: NYS Office of General Svces. Richard S. Totino, Terry Ramborger

State: New York Plot ID: A-W-16

SOILS

Map Unit Name (Series and Phase): llion silty clay loam

Drainage Class: poorly drained Map Symbol: is Taxonomy (Subgroup): mesic Mollic Endoaqualfs

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes No

Depth (inches) Horizon		Matrix Color Mottle Color (Munsell Moist)			ttle e/Contrast	Texture, Concretions, Structure, e
0-8	Α	10YR4/1	10YR4/3	Few	Faint	Silty clay loam
8-18+	В	10YR7/2	10YR6/4	Many	Faint	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Histic Epipedon

NO Sulfidic Odor

NO Aquic Moisture Regime

NO Reducing Conditions YES Gleyed or Low Chroma Colors **NO Concretions**

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils

YES Listed on Local Hydric Soils List NO Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	(Yes) No	Is the Sampling Point within the Wetland?	Yes No
Wetland Hydrology Present?	(Yes) No		
Hydric Soils Present?	(Yes) No		

Remarks:

Drought conditions at site. At Wetland Delineation flag A-258.

DATA FUNIVI ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project/Site: Applicant/Owner: NYS Office of General Svces. Project No: 36890

Date: 7-Oct-1999 County: Seneca

Investigators:

Richard S. Totino, Terry Ramborger

State: New York Plot ID: A-U-16

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 the reverse side)

Yes (No) Yes (No

No

(Yes)

Community ID: UPL

Transect ID: Field Location:

At Wetland Delineation flag A-258.

VEGETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Quercus rubra	Tree	FACU-	Toxicodendron radicans	Herb	FAC
Oak,Northern Red	1		Ivy,Poison		
Robinia pseudoacacia	Tree	FACU- Parthenocissus quinquefolia		Herb	FACU
Locust, Black			Creeper,Virginia		
Prunus serotina	Tree	FACU	Lysimachia nummularia	Herb	OBL
Cherry,Black			Jennie,Creeping		
Quercus bicolor	Shrub FACW+		Polygonum hydropiper	Herb	OBL
Oak,Swamp White			Smartweed, Marshpepper		
Ostrya virginiana	Shrub	FACU-			
Hop-Hornbeam, Eastern	1				
			<u></u>		

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

4/9 = 44.44%

FAC Neutral:

27/9 = 3.00Numeric Index:

No vines present, Q. bicolor and O. virginia occured as saplings, Area is 25 ft, from stream channel,

N/A (in.)

N/A (in.)

N/A (in.)

HYDROLOGY

NO Recorded Data(Describe in Remarks):

N/A Stream, Lake or Tide Gauge

N/A Aerial Photographs

Depth of Surface Water:

Depth to Saturated Soil:

Depth to Free Water in Pit:

N/A Other

YES No Recorded Data

Field Observations

Wetland Hydrology Indicators

Primary Indicators

NO Inundated

NO Saturated in Upper 12 Inches

NO Water Marks

NO Drift Lines

NO Sediment Deposits

NO Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):

NO Oxidized Root Channels in Upper 12 Inches

NO Water-Stained Leaves

NO Local Soil Survey Data

NO FAC-Neutral Test

NO Other (Explain in Remarks)

Remarks:

Drought conditions at site.

Page 1 of 2 WetForm ***

DATA FORM ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site:

Seneca Army Depot

Project No: 36890

7-Oct-1999

Applicant/Owner: NYS Office of General Svces.

County: Seneca

Investigators:

Richard S. Totino, Terry Ramborger

State: New York Plot ID: A-U-16

Date:

SOILS

Map Unit Name (Series and Phase): Darien silt loam

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs

Map Symbol: DaA Drainage Class: somewhat poorly drained

Mapped Hydric Inclusion?

Field Observations Confirm Mapped Type? Yes No

Profile Description

Depth Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)		ttle e/Contrast	Texture, Concretions, Structure, et
0-6	A	10YR5/2	N/A	N/A	N/A	Silty clay loam
6-18+	В	10YR6/3	N/A	N/A	N/A	Silty clay loam

Hydric Soil Indicators:

NO Histosol

NO Concretions

NO Histic Epipedon

NO High Organic Content in Surface Layer in Sandy Soils

NO Sulfidic Odor

NO Organic Streaking in Sandy Soils

NO Aquic Moisture Regime NO Reducing Conditions

NO Listed on Local Hydric Soils List NO Listed on National Hydric Soils List

NO Gleyed or Low Chroma Colors

NO Other (Explain in Remarks)

Remarks:

No mottles present.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No	Is the Sampling Point within the Wetland?	Yes No
Wetland Hydrology Present?	Yes No		
Hydric Soils Present?	Yes No		

Remarks:

Drought conditions at site. At Wetland Delineation flag A-258.

DATA FORM

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: Project No: S-6580 Seneca Army Depot Date: 18-Aug-1999 Applicant/Owner: NYS DEC County: Seneca Investigators: Janet Hunter; Jean Nagel State: New York Plot ID: J-W-1 Do Normal Circumstances exist on the site? Yes Community ID: wet Is the site significantly disturbed (Atypical Situation:)? Yes Transect ID: No Is the area a potential Problem Area? Field Location: M Yes (If needed, explain on the reverse side) Near Transition flag AA-1 **VEGETATION** (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator Негь FACW Bidens cemua Herb OBL Cyperus strigosus Flatsedge,Straw-Color Beggar-Ticks, Nodding Eleocharis acicularis Herb OBL Alisma plantago-aquatica Herb OBL Water-Plantain, Broad-Leaf Spikerush, Least Nuphar luteum Leersia oryzoides Herb OBL Herb OBL Cow-Lily, Yellow Cutgrass,Rice Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 6/6 = 100.00%**Numeric Index:** 6/6 = 100.00%7/6 = 1.17(excluding FAC-) Remarks: **HYDROLOGY** NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators **Primary Indicators** N/A Stream, Lake or Tide Gauge N/A Aerial Photographs **NO Inundated** N/A Other YES Saturated in Upper 12 Inches NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits Field Observations YES Drainage Patterns in Wetlands Secondary Indicators (2 or more required): NO Oxidized Root Channels in Upper 12 Inches Depth of Surface Water: N/A (in.) NO Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) YES Local Soil Survey Data YES FAC-Neutral Test Depth to Saturated Soil: = 0 (in.)NO Other (Explain in Remarks)

Remarks:

Drought conditions, this area would normally be inundated

Project/S Applicant Investiga	t/Owner: NY	eneca Army Depot 'S DEC net Hunter; Jean Na	agel	Project No	o: S-6580	Date: 18-Aug-1999 County: Seneca State: New York Plot ID: J-W-1		
SOILS								
Map Sym	bol: Is y (Subgroup	es and Phase): Drainage Class: p): mesic Mollic Oc		Mapp	ped Hydric Ir ervations Co	nclusion? onfirm Mapped Type? (Yes) No		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast	Texture, Co	oncretions, Structure, etc		
22		N/A	N/A	N/A N/A	Silt loam			
·	NO Reduc	Moisture Regime cing Conditions ed or Low Chroma		NO Organic Streaking in Sandy Soils YES Listed on Local Hydric Soils List YES Listed on National Hydric Soils List NO Other (Explain in Remarks)				
Remarks								
Hydrophyt Wetland F	tic Vegetation Hydrology Preside Present?	n Present? (Yes	No .	Is the Sampling Point w	vithin the We	tland? (es) No		
Remarks:								

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project No: S-6580 Date: 18-Aug-1999 Project/Site: Applicant/Owner: NYS DEC County: Seneca State: New York Investigators: Janet Hunter; Jean Nagel Plot ID: J-W-2 Do Normal Circumstances exist on the site? Yes Community ID: wet Is the site significantly disturbed (Atypical Situation:)? Yes Transect ID: No Is the area a potential Problem Area? Field Location: M (If needed, explain on the reverse side) Near Transition Flag BB-1 **VEGETATION** (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator OBL Polygonum lapathifolium Herb FACW+ Eleocharis acicularis Herb Spikerush, Least Willow-Weed Scirpus pungens Leersia oryzoides Herb OBL Herb FACW+ Bulrush, Three-Square Cutgrass, Rice Scirpus validus Herb OBL Bulrush, Soft-Stem Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 5/5 = 100.00%5/5 = 100.00% Numeric Index: 7/5 = 1.40(excluding FAC-) Remarks: **HYDROLOGY** NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators **Primary Indicators** N/A Stream, Lake or Tide Gauge N/A Aerial Photographs NO inundated N/A Other YES Saturated in Upper 12 Inches NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits **Field Observations** NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) YES Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) YES Local Soil Survey Data YES FAC-Neutral Test Depth to Saturated Soil: = 0 (in.)NO Other (Explain in Remarks) Remarks: Drought conditions

Project/S Applican Investiga	Owner: N	eneca Army Depot YS DEC Inet Hunter; Jean N	agel		Project No	o: S-6580	Date: 18-Aug-1999 County: Seneca State: New York Plot ID: J-W-2	
SOILS								
Map Sym	bol: Is y (Subgrou	es and Phase): Drainage Class: p): mesic Mollic Oc		1		ped Hydric In ervations Co	clusion? nfirm Mapped Type? Yes No	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)		lottle ce/Contrast	Texture, Co	ncretions, Structure, etc	
4-0	0	N/A	N/A	N/A	N/A	Clay loam	,	
0-5	Α	10YR4/1	7.5YR5/8	Many	Prominent	Clay loam		
5+	Bg	N5/	7.5YR5/8	Few	Few Prominent Silty clay loam, trace gravel			
	NO Sulfic NO Aquic NO Redu YES Gleye	sol c Epipedon		NO HI NO OI YES LI	oncretions gh Organic C rganic Streak sted on Loca sted on Natio ther (Explain	ing in Sandy I Hydric Soils nal Hydric S	s List	
Remarks some organ	s: nics in B Horiz	zon						
VETLAN	DETERMI	NATION						
Wetland H	ic Vegetation Hydrology Progressils Present?	resent?	No	Is the Sa	mpling Point v	vithin the Wet	land? (es) No	

(1987 COE Wetlands Delineation Manual) Project/Site: Seneca Army Depot Project No: S-6580 18-Aug-1999 Date: Applicant/Owner: NYS DEC County: Seneca State: New York Investigators: Janet Hunter; Jean Nagel Plot ID: J-U-1 Community ID: Upland Do Normal Circumstances exist on the site? Yes Transect ID: Is the site significantly disturbed (Atypical Situation:)? Yes No Field Location: is the area a potential Problem Area? $\overline{\mathsf{M}}$ Yes Near Transition flag AA-1 (If needed, explain on the reverse side) VEGETATION (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator Solidago altissima Herb FACU-Aster ericoides Herb FACU Aster.White Heath Golden-Rod, Tall Solidago odora Herb NI Comus racemosa Herb FAC-Dogwood, Gray-stemmed Goldenrod, sweet Toxicodendron radicans Herb FAC Ivy.Poison Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 0/2 = 0.00%(excluding FAC-) 1/4 = 25.00%Numeric Index: 14/4 = 3.50Remarks: **HYDROLOGY** NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators **Primary Indicators** N/A Stream, Lake or Tide Gauge N/A Aerial Photographs **NO Inundated** N/A Other NO Saturated in Upper 12 Inches NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits Field Observations NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) NO Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) NO Local Soil Survey Data NO FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks: Drought conditions

Project/S Applicant Investiga	t/Owner: N	eneca Army Depot YS DEC Inet Hunter; Jean N	agel	Project No: S-6580			Date: 18-Aug-1999 County: Seneca State: New York Plot ID: J-U-1	
SOILS								
Map Sym	bol: DaA y (Subgrou	es and Phase): Drainage Class: p): Aeric Ochraqua	Darien silt loam 0- somewhat poorly o lfs		Map		clusion? Ovid, Ilion, Angola nfirm Mapped Type? (Yes)	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)		ottle ce/Contrast	Texture, Co	ncretions, Structure, etc	
2-0	0	N/A	N/A	N/A	N/A	Silt loam		
0-6	A	10YR3/3	N/A	N/A	N/A	Silt loam		
6+	В	10YR3/3	10YR3/2 10YR6/8	Many Many	Distinct Distinct	Silty clay loam		
Hydric Sc	NO Sulfic NO Aquic NO Redu	sol c Epipedon		NO Hig NO Or NO Lis	ganic Streak sted on Loca sted on Natio	content in Sur ing in Sandy I Hydric Soils onal Hydric So in Remarks)	s List	
Remarks	D DETERMI	NATION						
Hydrophyl	tic Vegetatio Hydrology Pr ils Present?	n Present? Yes resent? Yes	No	Is the San	npling Point v	vithin the Wetl	land? Yes No	

: 1987 COE Wetlands Delineation Manual)

18-Aug-1999 Project No: S-6580 Date: Project/Site: Seneca Army Depot County: Seneca Applicant/Owner: NYS DEC State: New York Investigators: Janet Hunter; Jean Nagel Plot ID: J-U-2 Community ID: Upland Do Normal Circumstances exist on the site? Yes Is the site significantly disturbed (Atypical Situation:)? Transect ID: Yes No Field Location: Is the area a potential Problem Area? Yes Near Transition flag BB-1 (If needed, explain on the reverse side) (USFWS Region No. 1, Sub-Region, Great Lakes Plain) **VEGETATION** Stratum Indicator Plant Species(Latin/Common) Dominant Plant Species(Latin/Common) Stratum Indicator Shrub FAC-Solidago altissima Herb FACU-Cornus racemosa Dogwood, Gray-stemmed Golden-Rod Tall **FACW** Herb Fraxinus pennsylvanica Tree Solidago odora Goldenrod, sweet Ash, Green Aster ericoides Herb FACU Aster, White Heath 1/3 = 33.33% Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: Numeric Index: 13/4 = 3.25(excluding FAC-) 1/4 = 25.00%Remarks: **HYDROLOGY** NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators N/A Stream, Lake or Tide Gauge **Primary Indicators** N/A Aerial Photographs NO Inundated NO Saturated in Upper 12 Inches N/A Other NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits **Field Observations** NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) NO Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves N/A (in.) Depth to Free Water in Pit: NO Local Soil Survey Data NO FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks: Drought conditions

Project/S Applicant Investiga	Owner: N	eneca Army Depot YS DEC Inet Hunter; Jean N	agel	Project No: S-6580			Date: 18-Aug-1999 County: Seneca State: New York Plot ID: J-U-2	
SOILS								
Map Sym	bol: DaA y (Subgrou		Darien silt loam 0- somewhat poorly o lfs		Мар		clusion? Ovid, Ilion, Angola ofirm Mapped Type? Yes	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)		ttle e/Contrast	Texture, Cor	ncretions, Structure, etc	
2-0	0	N/A	N/A	N/A	N/A	Silt loam		
0-10	Α	10YR4/2	N/A	N/A	N/A	Silt loam		
10-16	В	10YR4/2	7.5YR5/8	Few	Distinct	Silty clay loar	n ·	
16+	Bg	10YR4/2	10YR7/3 10YR5/8	Common	Distinct Distinct	Silty clay loam		
Hydric Sc	NO Sulfic NO Aquic NO Redu	sol c Epipedon		NO Hig NO Org NO List	anic Streak ed on Loca ed on Natio	Content in Sur king in Sandy Il Hydric Soils onal Hydric So in Remarks)	List	
Remarks	:			. 30000	· ·			
VETLAND	DETERMI	NATION						
Wetland F	ic Vegetation Hydrology Profils Present?	resent? Yes		Is the Sam	pling Point v	within the Wetla	and? Yes No	
Remarks:								

(1987 COE Wetlands Delimeation Manual) Project No: S-6580 31-Aug-1999 Project/Site: Seneca Army Depot Date: County: Seneca Applicant/Owner: NYS DEC State: New York Investigators: Robert Dunn Plot ID: J-U-3 Do Normal Circumstances exist on the site? Yes Community ID: Upland Is the site significantly disturbed (Atypical Situation:)? Transect ID: Yes No Field Location: is the area a potential Problem Area? Yes (If needed, explain on the reverse side) Near Transition flag CC-1 (USFWS Region No. 1, Sub-Region, Great Lakes Plain) **VEGETATION** Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator FACU-Parthenocissus quinquefolia Herb FACU Acer saccharum Tree Maple,Sugar Creeper, Virginia Shrub FACU-Fraxinus americana Tree FACU Acer saccharum Ash.White Maple, Sugar Fraxinus americana Shrub FACU Ash, White Percent of Dominant Species that are OBL, FACW or FAC: 0/5 = 0.00%FAC Neutral: Numeric Index: 20/5 = 4.00(excluding FAC-) 0/5 = 0.00%Remarks: **HYDROLOGY** Wetland Hydrology Indicators NO Recorded Data(Describe in Remarks): N/A Stream, Lake or Tide Gauge **Primary Indicators** N/A Aerial Photographs NO Inundated NO Saturated in Upper 12 Inches N/A Other NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits Field Observations NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) NO Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves N/A (in.) Depth to Free Water in Pit: NO Local Soil Survey Data NO FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks: Drought conditions

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Applicant/Owner: NYS DEC Investigators: Robert Dunn				Project No: S-6580 Date: 31-Aug-199 County: Seneca State: New York Plot ID: J-U-3				
SOILS								
Map Sym	bol: DaA y (Subgrou		Darien silt loam 0- somewhat poorly o lfs		Map		nclusion? Ovid, Ilion, Angola nfirm Mapped Type? Yes	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast Texture, Contract		Texture, Co	ncretions, Structure, etc	
2-0	0	N/A	N/A	N/A	N/A	Silt loam		
0-6	Α	10YR4/2	N/A	N/A	N/A	Silt loam Silt loam, trace gravel		
6-18	В	10YR5/6	N/A	N/A	N/A			
	NO Sulfic NO Aquic NO Redu	sol Epipedon		NO Hig NO Org NO Lis NO Lis	ganic Streak ted on Loca ted on Natio	content in Su ing in Sandy I Hydric Soils onal Hydric S in Remarks)	s List oils List	
Remarks):							
	DETERMI							
Wetland F	tic Vegetation Hydrology Pricial Ils Present?	resent? Yes		Is the San	pling Point v	vithin the Wet	land? Yes No	
Remarks:								

(1987 COE Wetlands Delineation Manual) Project/Site: Seneca Army Depot Project No: S-6580 31-Aug-1999 Date: Applicant/Owner: NYS DEC County: Seneca Investigators: Robert Dunn State: New York Plot ID: J-W-3 Community ID: wet Do Normal Circumstances exist on the site? Yes Is the site significantly disturbed (Atypical Situation:)? Yes Transect ID: No is the area a potential Problem Area? Field Location: $\overline{\mathsf{N}}$ (If needed, explain on the reverse side) Near Transition flag CC-1 VEGETATION (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator Phalaris arundinacea Herb FACW+ Fraxinus pennsylvanica Herb FACW Grass.Reed Canary Ash, Green Phragmites australis Herb Fraxinus pennsylvanica Shrub **FACW FACW** Ash, Green Reed,Common Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 4/4 = 100.00%(excluding FAC-) 4/4 = 100.00%Numeric Index: 8/4 = 2.00Remarks: **HYDROLOGY** NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators N/A Stream, Lake or Tide Gauge Primary Indicators N/A Aerial Photographs NO inundated N/A Other NO Saturated in Upper 12 Inches YES Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits Field Observations YES Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: YES Oxidized Root Channels in Upper 12 Inches N/A (in.) YES Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) NO Local Soil Survey Data YES FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks: Drought conditions

(1987 COE Wetlands Delineation Manual) Project No: S-6580 Project/Site: Seneca Army Depot Date: 31-Aug-1999 Applicant/Owner: NYS DEC County: Seneca Investigators: Robert Dunn State: New York Plot ID: J-W-3 SOILS Map Unit Name (Series and Phase): Ilion silty clay loam Drainage Class: poorly drained Map Symbol: Is Mapped Hydric Inclusion? Taxonomy (Subgroup): mesic Mollic Ochraqualfs Field Observations Confirm Mapped Type? Yes No **Profile Description Matrix Color Mottle Color** Mottle Depth Horizon Texture, Concretions, Structure, etc (inches) (Munsell Moist) (Munsell Moist) Abundance/Contrast 0 N/A N/A N/A 4-0 N/A Silty clay 0-8 2.5Y5/2 N5/ Many Prominent Silty clay В 8-16 N4/ 2.5Y6/8 Many Prominent Clay Hydric Soil Indicators: **NO Histosol YES Concretions** NO Histic Epipedon NO High Organic Content in Surface Layer in Sandy Soils NO Sulfidic Odor NO Organic Streaking in Sandy Soils NO Aquic Moisture Regime YES Listed on Local Hydric Soils List **YES Reducing Conditions** YES Listed on National Hydric Soils List YES Gleyed or Low Chroma Colors NO Other (Explain in Remarks) Remarks: WETLAND DETERMINATION (Yes) Hydrophytic Vegetation Present? No Is the Sampling Point within the Wetland? No Yes Wetland Hydrology Present? Yes No Hydric Soils Present? Yes No Remarks:

(1987 COE Wetlands Delineation Manual)

Project No: S-6580 31-Aug-1999 Seneca Army Depot Date: Project/Site: Applicant/Owner: NYS DEC County: Seneca Robert Dunn State: New York Investigators: Plot ID: J-W-4 Community ID: wet Do Normal Circumstances exist on the site? Yes) Transect ID: Is the site significantly disturbed (Atypical Situation:)? Yes No Field Location: Is the area a potential Problem Area? Yes Near Transition flag DD-1 (If needed, explain on the reverse side) (USFWS Region No. 1, Sub-Region, Great Lakes Plain) **VEGETATION** Stratum Indicator Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) FACW+ FACW Polygonum lapathifolium Herb Herb Cyperus strigosus Flatsedge,Straw-Color Willow-Weed Scirpus pungens OBL Herb FACW+ Glyceria canadensis Herb Bulrush, Three-Square Grass, Canada Manna 4/4 = 100.00%Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: (excluding FAC-) 4/4 = 100.00% Numeric Index: 7/4 = 1.75Remarks: **HYDROLOGY** NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators **Primary Indicators** N/A Stream, Lake or Tide Gauge **NO Inundated** N/A Aerial Photographs YES Saturated in Upper 12 Inches N/A Other YES Water Marks YES No Recorded Data YES Drift Lines NO Sediment Deposits **Field Observations** YES Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: YES Oxidized Root Channels in Upper 12 Inches N/A (in.) YES Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) YES Local Soil Survey Data YES FAC-Neutral Test Depth to Saturated Soil: = 4 (in.)NO Other (Explain in Remarks) Remarks: Drought conditions

(1987 COE Wetlands Delineation Manual) Project/Site: Seneca Army Depot Project No: S-6580 31-Aug-1999 Date: Applicant/Owner: NYS DEC County: Seneca Investigators: Robert Dunn State: New York Plot ID: J-W-4 SC:LS Mup Unit Name (Series and Phase): Ilion silty clay loam Map Symbol: Is Drainage Class: poorly drained Mapped Hydric Inclusion? Taxonomy (Subgroup): mesic Mollic Ochraqualfs Field Observations Confirm Mapped Type? (Yes) No **Profile Description Matrix Color Mottle Color** Mottle Depth Horizon (Munsell Moist) Texture, Concretions, Structure, etc (inches) (Munsell Moist) Abundance/Contrast 8-0 N/A N/A N/A N/A Silt loam 0-8 Aw N3/ 2.5Y5/6 Common Prominent Clay, trace silt Hydric Soil Indicators: **NO Histosol YES Concretions** YES Histic Epipedon NO High Organic Content in Surface Layer in Sandy Soils YES Sulfidic Odor NO Organic Streaking in Sandy Soils YES Aquic Moisture Regime YES Listed on Local Hydric Soils List NO Reducing Conditions YES Listed on National Hydric Soils List NO Gleyed or Low Chroma Colors NO Other (Explain in Remarks) Remarks: WETLAND DETERMINATION Hydrophytic Vegetation Present? No Is the Sampling Point within the Wetland? No Yes Yes Wetland Hydrology Present? No Yes Hydric Soils Present? No Yes Remarks:

(1987 COE Wetlands Delineation Manual) Project No: S-6580 Project/Site: Seneca Army Depot Date: 1-Sep-1999 Applicant/Owner: NYS DEC County: Seneca Investigators: Robert Dunn State: New York Plot ID: J-W-5 Do Normal Circumstances exist on the site? Community ID: wet Yes Is the site significantly disturbed (Atypical Situation:)? Yes No Transect ID: Is the area a potential Problem Area? Field Location: Yes ₹No (If needed, explain on the reverse side) Near Transition flag FF-1 **VEGETATION** (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Stratum Indicator Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Fraxinus pennsylvanica Vibumum recognitum Herb FACW-Shrub FACW Arrow-Wood, Northern Ash, Green Herb Phalaris arundinacea FACW+ Fraxinus pennsylvanica Tree **FACW** Grass.Reed Canary Ash, Green FACW-Agrostis alba Ulmus americana Herb **FACW** Tree Elm, American Redtop Comus amomum Shrub **FACW** Dogwood, Silky 7/7 = 100.00% Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: (excluding FAC-) 7/7 = 100.00%Numeric Index: 14/7 = 2.00Remarks: **HYDROLOGY** NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators N/A Stream, Lake or Tide Gauge **Primary Indicators** N/A Aerial Photographs NO inundated NO Saturated in Upper 12 Inches N/A Other NO Water Marks YES No Recorded Data YES Drift Lines **YES Sediment Deposits** Field Observations YES Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) YES Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) YES Local Soil Survey Data YES FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks: Drought conditions

(1987 COE Wetlands Delineation Manual) Project No: S-6580 1-Sep-1999 Project/Site: Seneca Army Depot Date: County: Seneca Applicant/Owner: NYS DEC State: New York Investigators: Robert Dunn Plot ID: J-W-5 SOILS Map Unit Name (Series and Phase): llion silty clay loam Drainage Class: poorly drained Mapped Hydric Inclusion? Map Symbol: Is Taxonomy (Subgroup): mesic Mollic Ochraqualfs Field Observations Confirm Mapped Type? (Yes) No Profile Description **Matrix Color Mottle Color** Depth Mottle Texture, Concretions, Structure, etc Horizon (inches) (Munsell Moist) (Munsell Moist) Abundance/Contrast 0 4-0 N/A N/A N/A N/A Silt loam 10YR3/1 N/A N/A N/A Silt loam 0-6 A Prominent Silty clay 6-18 Bg 2.5Y3/1 2.5Y6/8 Many Hydric Soil Indicators: **NO Histosol NO Concretions** NO Histic Epipedon NO High Organic Content in Surface Layer in Sandy Soils NO Sulfidic Odor NO Organic Streaking in Sandy Soils NO Aquic Moisture Regime YES Listed on Local Hydric Soils List **YES Reducing Conditions** YES Listed on National Hydric Soils List YES Gleyed or Low Chroma Colors NO Other (Explain in Remarks) Remarks: WETLAND DETERMINATION Hydrophytic Vegetation Present? No Is the Sampling Point within the Wetland? Yes Yes Wetland Hydrology Present? res No Hydric Soils Present? Yes No Remarks:

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project No: S-6580 1-Sep-1999 Project/Site: Date: Applicant/Owner: NYS DEC County: Seneca State: New York Investigators: Robert Dunn Plot ID: J-U-5 Community ID: Upland Do Normal Circumstances exist on the site? Yes No Is the site significantly disturbed (Atypical Situation:)? Transect ID: Yes No Is the area a potential Problem Area? Field Location: ₩ ON Yes (if needed, explain on the reverse side) Near Transition Flag FF-1 (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Stratum Indicator Plant Species(Latin/Common) Dominant Plant Species(Latin/Common) Stratum Indicator Shrub Solidago altissima Elaeagnus umbellata Herb FACU-Golden-Rod, Tall Autumn-olive Solidago canadensis Herb FACU Comus racemosa Shrub FAC-Golden-Rod, Canada Dogwood, Gray-stemmed Herb FACU Fragaria virginiana Strawberry, Virginia Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 0/3 = 0.00%(excluding FAC-) 0/4 = 0.00%Numeric Index: 15/4 = 3.75Remarks: **HYDROLOGY** NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators N/A Stream, Lake or Tide Gauge **Primary Indicators** N/A Aerial Photographs NO Inundated NO Saturated in Upper 12 Inches N/A Other NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits **Field Observations** NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: NO Oxidized Root Channels in Upper 12 Inches N/A (in.) NO Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) NO Local Soil Survey Data NO FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks: Drought conditions

(1987 COE Wei :nds Delineation Manual)

Project/Site: Seneca Army Depot Project No: S-6580 Date: 1-Sep-1999
Applicant/Owner: NYS DEC County: Seneca State: New York
Plot ID: J-U-5

SOILS

	y (Subgrouscription	p): Aeric Ochraqua	lfs			ped Hydric Inclusion? Ovid, Ilion, Angola ervations Confirm Mapped Type? Yes
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mo Abundanc	ttle e/Contrast	Texture, Concretions, Structure, etc
3-0	0	N/A	N/A	N/A	N/A	Silt loam
0-6	Α	10YR4/3	N/A	N/A	N/A	Silt loam
6-16	В	10YR3/2	N/A	N/A	N/A	Silt loam
Hydric So	NO Sulfic NO Aquic NO Redu	sol Epipedon		NO High NO Org NO List	anic Streak ed on Loca ed on Natio	Content in Surface Layer in Sandy Soils king in Sandy Soils Il Hydric Soils List onal Hydric Soils List in Remarks)

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	Yes No Yes No Yes No	Is the Sampling Point within the Wetland?	Yes No
Remarks:			
•			

987 COE Wetlands Delineation Manual) Project No: S-6580 1-Sep-1999 Project/Site: Seneca Army Depot Date: County: Seneca Applicant/Owner: NYS DEC State: New York Investigators: Robert Dunn Plot ID: J-U-6 Community ID: Upland Do Normal Circumstances exist on the site? Yes Transect ID: Is the site significantly disturbed (Atypical Situation:)? Yes NO Field Location: Is the area a potential Problem Area? Yes ₹ No Near Transition flag GG-1 (If needed, explain on the reverse side) **VEGETATION (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator Shrub UPL Herb Rhamnus cathartica Solidago canadensis FACU Golden-Rod, Canada Buckthorn, Common NI Toxicodendron radicans Herb FAC Crataegus spp. Tree Thornapple lvv.Poison FACU-Shrub FACU-Carya ovata Tree Carya ovata Hickory, Shag-Bark Hickory, Shag-Bark Shrub NI Crataegus spp. Thornapple 0/4 = 0.00%Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: Numeric Index: 20/5 = 4.00(excluding FAC-) 1/5 = 20.00%Remarks: **HYDROLOGY** Wetland Hydrology Indicators NO Recorded Data(Describe in Remarks): N/A Stream, Lake or Tide Gauge Primary Indicators N/A Aerial Photographs NO Inundated NO Saturated in Upper 12 Inches N/A Other NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits Field Observations NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) NO Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves N/A (in.) Depth to Free Water in Pit: NO Local Soil Survey Data NO FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks)

Remarks: Drought conditions

(1987 COE Wetlands Delineation Manual) Project/Site: Seneca Army Depot Project No: S-6580 1-Sep-1999 Date: Applicant/Owner: NYS DEC County: Seneca Investigators: Robert Dunn State: **New York** Plot ID: J-U-6 SOILS Map Unit Name (Series and Phase): Darien silt loam 0-3 percent slopes Map Symbol: DaA Drainage Class: somewhat poorly drained Mapped Hydric Inclusion? Ovid, Ilion, Angola Taxonomy (Subgroup): Aeric Ochraqualfs Field Observations Confirm Mapped Type? Yes (No) **Profile Description** Depth Matrix Color **Mottle Color** Mottle Horizon Texture, Concretions, Structure, etc (inches) (Munsell Moist) (Munsell Moist) Abundance/Contrast N/A 2-0 0 N/A N/A N/A Silt loam 0-4 A 10YR4/2 N/A N/A N/A Silty clay 4-16 В 10YR5/6 N/A N/A N/A Silty clay Hydric Soil Indicators: **NO Histosol NO Concretions** NO Histic Epipedon NO High Organic Content in Surface Layer in Sandy Soils NO Sulfidic Odor NO Organic Streaking in Sandy Soils NO Aquic Moisture Regime NO Listed on Local Hydric Soils List **NO Reducing Conditions** NO Listed on National Hydric Soils List NO Gleyed or Low Chroma Colors NO Other (Explain in Remarks) Remarks: WETLAND DETERMINATION Hydrophytic Vegetation Present? Its the Sampling Point within the Wetland?

Wetland Hydrology Present? Hydric Soils Present?	Yes No Yes No	· · · · · · · · · · · · · · · · · · ·	
Remarks: sunny/ 70 degrees			

(1987 COE Wetlands Delimeation Manual)

Project No: S-6580 Project/Site: Seneca Army Depot 1-Sep-1999 Date: County: Seneca Applicant/Owner: NYS DEC Investigators: Robert Dunn State: New York Plot ID: J-W-6 Do Normal Circumstances exist on the site? Community ID: wet Yes Νo Transect ID: Is the site significantly disturbed (Atypical Situation:)? Yes No Is the area a potential Problem Area? Field Location: Yes \overline{M} (If needed, explain on the reverse side) Near Transition flag GG-1 VEGETATION (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator Phalaris arundinacea Juncus canadensis Herb FACW+ Herb OBL Grass.Reed Canary Rush, Canada Scirpus cyperinus Herb FACW+ Comus stolonifera Shrub FACW+ Wool-Grass Dogwood,Red-Osier Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 4/4 = 100.00%4/4 = 100.00% **Numeric Index:** 7/4 = 1.75(excluding FAC-) Remarks: **HYDROLOGY** NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators N/A Stream, Lake or Tide Gauge **Primary Indicators** N/A Aerial Photographs NO Inundated N/A Other YES Saturated in Upper 12 Inches NO Water Marks YES No Recorded Data YES Drift Lines NO Sediment Deposits Field Observations YES Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) YES Oxidized Root Channels in Upper 12 Inches YES Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) YES Local Soil Survey Data YES FAC-Neutral Test Depth to Saturated Soil: = 8 (in.)NO Other (Explain in Remarks) Remarks: Drought conditions

		(1987 COE Wet	ands Del	ineation M	lanual)		
Applicant	Project/Site: Seneca Army Depot Applicant/Owner: NYS DEC nvestigators: Robert Dunn				Project No	o: S-6580	Date: 1-Sep-1999 County: Seneca State: New York Plot ID: J-W-6	
SOILS								
Map Sym	bol: Is y (Subgrou	ies and Phase): Drainage Class: p): mesic Mollic Oc		1		ped Hydric In ervations Co	nclusion? onfirm Mapped Type? Yes No	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)		ottle ce/Contrast	Texture, Co	oncretions, Structure, etc	
4-0	0	N/A	N/A	N/A	N/A	Silt loam		
0-6	Α	10YR4/1	10YR5/8	Many	Distinct	Silty clay		
6-12	Bw	N3/	2.5Y5/6	Many	Prominent	Silty clay		
	YES Redu	c Moisture Regime ucing Conditions ed or Low Chroma		YES Lis	sted on Loca sted on Natio	ing in Sandy I Hydric Soil nal Hydric S in Remarks)	s List oils List	
Remarks WETLANI	DETERMI	NATION						
Wetland I	tic Vegetation Hydrology Prilis Present?		No	Is the Sar	npling Point v	vithin the Wet	lland? (Yes) No	
Remarks:				-				
remarks.								

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: S-6580 1-Sep-1999 Date: Applicant/Owner: NYS DEC County: Seneca Investigators: Robert Dunn State: New York Plot ID: J-W-7 Do Normal Circumstances exist on the site? Community ID: wet Yes Is the site significantly disturbed (Atypical Situation:)? Transect ID: Yes NO Is the area a potential Problem Area? Field Location: Yes No (If needed, explain on the reverse side) Near Transition flag HH-1 VEGETATION (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator Glyceria canadensis Herb OBL Cyperus strigosus Herb **FACW** Grass.Canada Manna Flatsedge,Straw-Color Nuphar luteum Herb OBL Bidens bidentoides Herb FACW Cow-Lily Yellow Beggar-Ticks,Swamp Phragmites australis Herb FACW Reed.Common Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 5/5 = 100.00%(excluding FAC-) 5/5 = 100.00% Numeric Index: 8/5 = 1.60Remarks: HYDROLOGY NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators N/A Stream, Lake or Tide Gauge **Primary Indicators** N/A Aerial Photographs YES Inundated N/A Other YES Saturated in Upper 12 Inches NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits **Field Observations** NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: = 0.5 (in.)NO Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) YES Local Soil Survey Data YES FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks: Drought conditions

(1987 COE Wetlands Delineation Manual) Seneca Army Depot Project/Site: Project No: S-6580 Date: 1-Sep-1999 Applicant/Owner: NYS DEC County: Seneca Investigators: Robert Dunn State: New York Plot ID: J-W-7 SOILS Map Unit Name (Series and Phase): Ilion silty clay loam Map Symbol: Is Drainage Class: poorly drained Mapped Hydric Inclusion? Taxonomy (Subgroup): mesic Mollic Ochraqualfs Field Observations Confirm Mapped Type? (Yes) No **Profile Description Matrix Color Mottle Color** Mottle Depth Horizon Texture, Concretions, Structure, etc (Munsell Moist) (Munsell Moist) Abundance/Contrast (inches) 16+ O N/A N/A N/A N/A Silt loam Hydric Soil Indicators: YES Histosol **NO Concretions** NO Histic Epipedon NO High Organic Content in Surface Layer in Sandy Soils NO Sulfidic Odor NO Organic Streaking in Sandy Soils NO Aquic Moisture Regime YES Listed on Local Hydric Soils List **NO Reducing Conditions** YES Listed on National Hydric Soils List NO Gleyed or Low Chroma Colors NO Other (Explain in Remarks) Remarks: WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes No Is the Sampling Point within the Wetland? (Yes) No Wetland Hydrology Present? Yes No Hydric Soils Present? Yes No Remarks: No upland plot, man-made causway

(1987 COE Wetlands Delineation Manual)

Project No: S-6580 Project/Site: Seneca Army Depot Date: 1-Sep-1999 Applicant/Owner: NYS DEC County: Seneca New York Investigators: Robert Dunn State: Plot ID: J-W-8 Do Normal Circumstances exist on the site? Community ID: wet Yes) Transect ID: Is the site significantly disturbed (Atypical Situation:)? Yes No Is the area a potential Problem Area? Field Location: Mo Yes (If needed, explain on the reverse side) Near Transition flag II-1 VEGETATION (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Stratum Indicator Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) FACW+ Phragmites australis Herb FACW Phalaris arundinacea Herb Grass, Reed Canary Reed.Common 2/2 = 100.00%Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 2/2 = 100.00%Numeric Index: 4/2 = 2.00(excluding FAC-) Remarks: **HYDROLOGY** NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators N/A Stream, Lake or Tide Gauge **Primary Indicators** N/A Aerial Photographs **NO inundated** NO Saturated in Upper 12 Inches N/A Other NO Water Marks YES No Recorded Data YES Drift Lines YES Sediment Deposits **Field Observations** YES Drainage Patterns in Wetlands Secondary Indicators (2 or more required): YES Oxidized Root Channels in Upper 12 Inches Depth of Surface Water: N/A (in.) YES Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) YES Local Soil Survey Data YES FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks: Drought conditions

SOILS Map Tunit Name (Series and Phase): Ilion silty clay loam Map Symbol: Is Drainage Class: poorly drained Taxonomy (Subgroup): mesic Mollic Ochraqualfs Profile Description Depth (Inches) Horizon (Munsell Moist) (Munsell Moist) 4-0	Project/Site: Seneca Army Depot Applicant/Owner: NYS DEC Investigators: Robert Dunn					Project N	Date: 1-Sep-1999 County: Seneca State: New York Plot ID: J-W-8	
Map Symbol: Is Drainage Class: poorly drained Taxonomy (Subgroup): mesic Mollic Ochraqualfs Field Observations Confirm Mapped Type? Profile Description Depth (inches) Horizon (Munsell Moist) (Munsell Moist) (Munsell Moist) Abundance/Contrast Texture, Concretions, Structure, 4-0 0 N/A N/A N/A Silt loam 0-6 A 10YR4/2 N/A N/A N/A Silty clay 6-18 Bg 10YR5/1 7.5YR5/8 Many Distinct Silty clay Hydric Soil Indicators: NO Histosol NO Sulfidic Odor NO Sulfidic Odor NO Aquic Moisture Regime YES Reducing Conditions YES Listed on Local Hydric Soils List YES Listed on National Hydric Soils List YES Listed on National Hydric Soils List NO Other (Explain in Remarks) WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes No Wetland Hydric Soils Present? Yes No Hydric Soils Present? Yes No Hydric Soils Present? Yes No Hydric Soils Present? Yes No Hydric Soils Present? Yes No Hydric Soils Present?	DILS				***************************************			
(inches) Horizon (Munsell Moist) (Munsell Moist) Abundance/Contrast Texture, Concretions, Structure, 4-0 0 N/A N/A N/A N/A Silt loam 0-6 A 10YR4/2 N/A N/A N/A Silty clay 6-18 Bg 10YR5/1 7.5YR5/8 Many Distinct Silty clay Hydric Soil Indicators: NO Histosol NO Histic Epipedon NO Sulfidic Odor NO Aquic Moisture Regime YES Reducing Conditions YES Gleyed or Low Chroma Colors Remarks: WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Hydric Soils Present? Yes No Hydric Soils Present? Yes No	ap Symb	ool: Is (Subgrou	Drainage Class:	poorly drained				
4-0 O N/A N/A N/A N/A Silt loam 0-6 A 10YR4/2 N/A N/A N/A Silty clay 6-18 Bg 10YR5/1 7.5YR5/8 Many Distinct Silty clay Hydric Soil Indicators: NO Histosol NO Histic Epipedon NO Sulfidic Odor NO Aquic Moisture Regime YES Reducing Conditions YES Gleyed or Low Chroma Colors Remarks: WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Hydric Soils Present? Yes No Hydric Soils Present? Yes No Hydric Soils Present? Yes No Hydric Soils Present? Yes No Hydric Soils Present? Yes No Hydric Soils Present? Yes No		Horizon					Texture, Co	oncretions, Structure, etc
Hydric Soil Indicators: NO Histosol NO Histic Epipedon NO Sulfidic Odor NO Aquic Moisture Regime YES Reducing Conditions YES Gleyed or Low Chroma Colors Remarks: NO Concretions NO Content in Surface Layer in Sandy NO Organic Streaking in Sandy Soils NO Organic Streaking in Sandy Soils YES Listed on Local Hydric Soils List YES Listed on National Hydric Soils List YES Listed on National Hydric Soils List NO Other (Explain in Remarks) NO Concretions NO Organic Streaking in Sandy Soils YES Listed on Local Hydric Soils List YES Listed on National Hydric Soils List NO Other (Explain in Remarks) NO Organic Streaking in Sandy Soils YES Listed on National Hydric Soils List YES Listed on National Hydric Soils List NO Other (Explain in Remarks) NO Organic Streaking in Sandy Soils YES Listed on National Hydric Soils List YES Listed on National Hydric Soils List NO Other (Explain in Remarks) NO Other (Explain in Remarks) NO Other (Ex		0					Silt loam	
Hydric Soil Indicators: NO Histosol NO Histic Epipedon NO Sulfidic Odor NO Aquic Moisture Regime YES Reducing Conditions YES Gleyed or Low Chroma Colors Remarks: NO Concretions NO High Organic Content in Surface Layer in Sandy NO Organic Streaking in Sandy Soils YES Listed on Local Hydric Soils List YES Listed on National Hydric Soils List NO Other (Explain in Remarks) NO Other (Explain in Remarks)	0-6	Α	10YR4/2	N/A	N/A	N/A Silty clay		
NO Histosol NO Histic Epipedon NO Sulfidic Odor NO Aquic Moisture Regime YES Reducing Conditions YES Gleyed or Low Chroma Colors NO Other (Explain in Remarks) WETLAND DETERMINATION Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present? NO Concretions NO High Organic Content in Surface Layer in Sandy NO Organic Streaking in Sandy Soils YES Listed on Local Hydric Soils List YES Listed on National Hydric Soils List NO Other (Explain in Remarks) NO Other (Explain in Remarks) Is the Sampling Point within the Wetland? Yes No Hydric Soils Present?	6-18	Bg	10YR5/1	7.5YR5/8	Many	Distinct	Silty clay	
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Hydric Soils Present? Yes No		NO Aqui	c Moisture Regime		YES Lis	ited on Loca ited on Natio	I Hydric Soils onal Hydric S	s List soils List
Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Hydric Soils Present? Yes No	emarks	•						
Wetland Hydrology Present? Yes No Hydric Soils Present? Yes No	ETLAND	DETERMI	NATION					
Remarks:	Wetland Hydrology Present? Yes No				Is the San	npling Point	within the Wet	tland? (Yes) No
	emarks:							
•	•							

(1987 COE Wetlands Delineation Manual) Project/Site: Seneca Army Depot Project No: S-6580 Date: 1-Sep-1999 Applicant/Owner: NYS DEC County: Seneca State: New York Investigators: Robert Dunn Plot ID: J-U-8 Do Normal Circumstances exist on the site? Community ID: Upland Yes No Is the site significantly disturbed (Atypical Situation:)? Transect ID: Yes NO Is the area a potential Problem Area? Field Location: Yes Near Transition flag II-1 (If needed, explain on the reverse side) VEGETATION (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator Fraxinus americana Herb FACU Comus racemosa Shrub FAC-Ash White Dogwood, Gray-stemmed Rubus idaeus Herb FAC-Crataegus spp. Tree NI Raspberry, Common Red Thomapple Toxicodendron radicans Herb FAC Fraxinus americana FACU Tree Ash.White Ivy.Poison UPL Rhamnus cathartica Shrub UPL Rhamnus cathartica Ггее Buckthorn.Common Buckthorn Common Fraxinus americana Shrub FACU Ash, White Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 0/5 = 0.00%1/8 = 12.50% (excluding FAC-) Numeric Index: 31/8 = 3.88Remarks: HYDROLOGY NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators N/A Stream, Lake or Tide Gauge Primary Indicators N/A Aerial Photographs NO Inundated NO Saturated in Upper 12 Inches N/A Other NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits Field Observations NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) NO Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) NO Local Soil Survey Data NO FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks: Drought conditions

		(1987 COE Wet	lands Deli	neation N	lanual)	
Project/S Applican Investiga	t/Owner: N	eneca Army Depot YS DEC obert Dunn		Project No: S-6580			Date: 1-Sep-1999 County: Seneca State: New York Plot ID: J-U-8
SOILS							
Map Sym	bol: DaA y (Subgrou	ies and Phase): Drainage Class: up): Aeric Ochraqua	Darien silt loam 0- somewhat poorly o lfs		Map		nclusion? Ovid, Ilion, Angola onfirm Mapped Type? Yes No
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)		ottle ce/Contrast	Texture, Co	oncretions, Structure, etc
2-0	0	N/A	N/A	N/A	N/A	Silt loam	
0-6	Α	10YR6/3	N/A	N/A	N/A	Silt loam	
6-14	В	10YR4/2	N/A	N/A N/A N/A Silty clay loam, trace gravel			
Hydric So	NO Sulfic NO Aqui NO Redu			NO Hig NO Org NO Lis	ganic Streak ted on Loca ted on Natio	Content in Su king in Sandy Il Hydric Soil onal Hydric S in Remarks)	s List Soils List
Remarks	S: D DETERMI	NATION					
Wetland I	tic Vegetation Hydrology Polits Present?		No	Is the San	pling Point v	within the Wet	tland? Yes No

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	Yes No Yes No	Is the Sampling Point within the Wetland?	Yes No
Remarks: sunny/80 degrees			

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project/Site: Project No: S-6580 1-Sep-1999 Date: Applicant/Owner: NYS DEC County: Seneca Investigators: State: New York Janet Hunter; Jean Nagel Plot ID: J-U-9 Community ID: Upland Do Normal Circumstances exist on the site? Yes Is the site significantly disturbed (Atypical Situation:)? Yes No Transect ID: Field Location: Is the area a potential Problem Area? Yes No (If needed, explain on the reverse side) Near Transition flag JJ-1 **VEGETATION** (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator Toxicodendron quercifolia FACU Comus racemosa Shrub FAC-Herb Oak, Poison Dogwood, Gray-stemmed Solidago altissima Herb FACU-Prunus alleghaniensis Tree UPL Golden-Rod, Tall Plum, Allegheny FAC-Robinia pseudoacacia FACU-Comus racemosa Herb Tree Dogwood, Gray-stemmed Locust.Black Robinia pseudoacacia Shrub FACU-Locust,Black Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 0/5 = 0.00%0/7 = 0.00%Numeric Index: 27/7 = 3.86(excluding FAC-) Remarks: **HYDROLOGY** NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators N/A Stream, Lake or Tide Gauge **Primary Indicators** N/A Aerial Photographs **NO Inundated** N/A Other NO Saturated in Upper 12 Inches NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits Field Observations NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) NO Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) NO Local Soil Survey Data NO FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks: Drought conditions

> Page 1 of 2 WetFormtm

Project/Site: Seneca Army Depot Applicant/Owner: NYS DEC Investigators: Janet Hunter; Jean Nagel			Project No	Date: 1-Sep-1999 County: Seneca State: New York Plot ID: J-U-9			
SOILS							
Map Sym	bol: DaA y (Subgrou	es and Phase): Drainage Class: p): Aeric Ochraqua	Darien silt loam 0- somewhat poorly of lfs	drained Map		nclusion? Ovid, Ilion, Angola onfirm Mapped Type? Yes	
Depth Matrix Color Mottle Color (inches) Horizon (Munsell Moist) (Munsell Moist)				Mottle Abundance/Contrast	Texture, Concretions, Structure, etc		
0	0	N/A	N/A	N/A N/A	Silt loam		
Remarks soil too dry	NO Redu NO Gleye	c Moisture Regime icing Conditions ed or Low Chroma		NO Listed on Loca NO Listed on Natio NO Other (Explain	nal Hydric S	ioils List	
Wetland H	tic Vegetation Hydrology Prilis Present?	resent? Yes	No	Is the Sampling Point v	vithin the Wet	tland? Yes No	
Remarks							

(シ87 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: S-6580 1-Sep-1999 Date: Applicant/Owner: NYS DEC County: Seneca Investigators: Janet Hunter; Jean Nagel New York State: Plot ID: J-W-9 Do Normal Circumstances exist on the site? Community ID: wet Yes Is the site significantly disturbed (Atypical Situation:)? Transect ID: Yes NO Is the area a potential Problem Area? Field Location: Yes M (If needed, explain on the reverse side) Near Transition flag JJ-1 VEGETATION (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator Panicum dichotomiflorum Herb FACW-Cyperus strigosus Herb FACW Grass Fall Panic Flatsedge,Straw-Color Bidens cemua Herb OBL Scirpus pungens Herb FACW+ Bulrush, Three-Square Beggar-Ticks, Nodding Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 4/4 = 100.00% (excluding FAC-) 4/4 = 100.00% Numeric Index: 7/4 = 1.75Remarks: **HYDROLOGY** NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators N/A Stream, Lake or Tide Gauge **Primary Indicators** N/A Aerial Photographs NO inundated N/A Other NO Saturated in Upper 12 Inches NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits Field Observations NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) YES Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) YES Local Soil Survey Data YES FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks: Drought conditions

DATA FORM

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manua; Project/Site: Seneca Army Depot Project No: S-6580 1-Sep-1999 Date: Applicant/Owner: NYS DEC County: Seneca Investigators: Janet Hunter; Jean Nagel State: New York Plot ID: J-W-9 SOILS Map Unit Name (Series and Phase): Ilion silty clay loam Map Symbol: Is Drainage Class: poorly drained Mapped Hydric Inclusion? Taxonomy (Subgroup): mesic Mollic Ochraqualfs Field Observations Confirm Mapped Type? (Yes) No **Profile Description** Matrix Color Mottle Depth **Mottle Color** Horizon Texture, Concretions, Structure, etc (inches) (Munsell Moist) (Munsell Moist) Abundance/Contrast 5-0 O N/A N/A N/A N/A Silt loam 0-5 10YR4/1 10YR5/8 Common Distinct Sandy loam 5+ B 10YR4/2 7.5YR6/8 Many Distinct Clay, trace gravel 10YR4/1 Few Distinct Hydric Soil Indicators: **NO Histosol NO Concretions** NO Histic Epipedon NO High Organic Content in Surface Layer in Sandy Soils NO Sulfidic Odor NO Organic Streaking in Sandy Soils NO Aquic Moisture Regime YES Listed on Local Hydric Soils List **NO Reducing Conditions** YES Listed on National Hydric Soils List NO Gleyed or Low Chroma Colors NO Other (Explain in Remarks) Remarks: WETLAND DETERMINATION

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	Yes No Yes No Yes No	Is the Sampling Point within the Wetland? Yes No	
Remarks:			
		TO BE THE THE TRANSPORT OF THE TRANSPORT	

(1987 COE Wetlands Deli: *ation Manual) Project/Site: Seneca Army Depot Project No: S-6580 Date: 1-Sep-1999 County: Seneca Applicant/Owner: NYS DEC State: New York Janet Hunter; Jean Nagel Investigators: Plot ID: J-W-10 Community ID: wet Do Normal Circumstances exist on the site? Yes Transect ID: Is the site significantly disturbed (Atypical Situation:)? Yes NO Is the area a potential Problem Area? Field Location: Yes ₹ Took Near Transition flag KK-1 (If needed, explain on the reverse side) VEGETATION (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Stratum Indicator Plant Species(Latin/Common) Dominant Plant Species(Latin/Common) Stratum Indicator OBL Herb FACW Herb Cyperus strigosus Leersia oryzoides Flatsedge, Straw-Color Cutgrass, Rice OBL Bidens cemua Herb Beggar-Ticks, Nodding Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 3/3 = 100.00%(excluding FAC-) 3/3 = 100.00% Numeric Index: 4/3 = 1.33Remarks: HYDROLOGY NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators **Primary Indicators** N/A Stream, Lake or Tide Gauge N/A Aerial Photographs NO Inundated N/A Other NO Saturated in Upper 12 Inches NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits Field Observations NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) YES Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) YES Local Soil Survey Data YES FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks)

Remarks:

Drought conditions

Oxidized root channels to surface

(1987 COE Wetlands Delineation Manual) Project No: S-6580 Project/Site: Seneca Army Depot Date: 1-Sep-1999 Applicant/Owner: NYS DEC County: Seneca Investigators: Janet Hunter; Jean Nagel State: New York Plot ID: J-W-10 SOILS Map Unit Name (Series and Phase): Ilion silty clay loam Drainage Class: poorly drained Mapped Hydric Inclusion? Map Symbol: Is Taxonomy (Subgroup): mesic Mollic Ochraqualfs Field Observations Confirm Mapped Type? (Yes) No Profile Description

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, e	
4-0	0	N/A	N/A	N/A	N/A	Silt loam	
0-8	A	10YR2/2	7.5YR5/8	Many	Distinct	Sandy loam, trace silt	
8+	Bg	5GY4/1	7.5YR5/8 7.5YR7/3	Many Few	Distinct Distinct	Silty clay	

Hydric Soil Indicators:

NO Histosol
NO Histic Epipedon
NO Sulfidic Odor

NO Aquic Moisture Regime NO Reducing Conditions

NO Gleyed or Low Chroma Colors

NO Concretions

NO High Organic Content in Surface Layer in Sandy Soils

NO Organic Streaking in Sandy Soils
YES Listed on Local Hydric Soils List
YES Listed on National Hydric Soils List

NO Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	Yes Yes Yes	No No No	Is the Sampling Point within the Wetland?	Yes	No
Remarks:					

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(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project No: S-6580 Date: 1-Sep-1999 Project/Site: Applicant/Owner: NYS DEC County: Seneca Janet Hunter; Jean Nagel State: New York Investigators: Plot ID: J-U-10 Community ID: Upland Do Normal Circumstances exist on the site? Yes No Transect ID: Is the site significantly disturbed (Atypical Situation:)? Yes No Is the area a potential Problem Area? Field Location: Yes Mo Near Transition flag KK-1 (If needed, explain on the reverse side) VEGETATION (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Stratum Indicator Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Xanthoxylum americanum Shrub Parthenocissus quinquefolia Herb FACU N Creeper Virginia Prickly-ash, Northern Toxicodendron radicans Herb FAC Crataegus spp. Tree Thornapple lvy,Poison FACU+ Juglans cinerea Crataegus spp. Herb NΙ Tree Thomapple Butternut Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 0/2 = 0.00%1/3 = 33.33% Numeric Index: 11/3 = 3.67(excluding FAC-) Remarks: **HYDROLOGY** Wetland Hydrology Indicators NO Recorded Data(Describe in Remarks): **Primary Indicators** N/A Stream, Lake or Tide Gauge NO Inundated N/A Aerial Photographs N/A Other NO Saturated in Upper 12 Inches NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits Field Observations NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) NO Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) NO Local Soil Survey Data NO FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks: Drought conditions

Project/Site: Seneca Army Depot Applicant/Owner: NYS DEC Investigators: Janet Hunter; Jean Nagel			Project No: S-6580			Date: 1-Sep-1999 County: Seneca State: New York Plot ID: J-U-10			
SOILS		•							
Map Sym	bol: DaA y (Subgrou		Darien silt loam 0- somewhat poorly o lfs		Map		nclusion? Ovid, Ilion, Angola onfirm Mapped Type? Yes		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)		e/Contrast	Texture, Concretions, Structure, etc			
1-0	0	N/A	N/A	N/A	N/A	Silt loam			
0+	0+ A 10YR5/2 N/A				N/A	Silt loam	Silt loam		
	s: oil falls right o	ed or Low Chroma		YES Oth	ner (Explain	in Remarks)			
	DETERMI								
Wetland F	tic Vegetation Hydrology Properties Hydrol	resent? Yes	No	Is the San	npling Point v	vithin the Wet	tland? Yes No		
Remarks:									

(1987 COE Wetlands Delineation Manual) Project No: S-6580 1-Sep-1999 Project/Site: Seneca Army Depot Date: County: Seneca Applicant/Owner: NYS DEC Investigators: State: New York Janet Hunter; Jean Nagel Plot ID: J-W-11 Community ID: wet Do Normal Circumstances exist on the site? Yes) Is the site significantly disturbed (Atypical Situation:)? Transect ID: Yes No Field Location: is the area a potential Problem Area? $\overline{\mathsf{M}}$ Yes (If needed, explain on the reverse side) Near Transition flag LL-1 (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator Dominant Plant Species(Latin/Common) Shrub FACW Phalaris arundinacea Herb FACW+ Comus amomum Grass.Reed Canary Dogwood, Silky Shrub FACW+ Herb OBL Comus stolonifera Typha latifolia Dogwood, Red-Osier Cattail Broad-Leaf FAC-Herb Comus racemosa Shrub Lythrum salicaria FACW+ Loosestrife, Purple Dogwood, Gray-stemmed Percent of Dominant Species that are OBL, FACW or FAC: 5/5 = 100.00% FAC Neutral: Numeric Index: 12/6 = 2.00(excluding FAC-) 5/6 = 83.33%Remarks: **HYDROLOGY** Wetland Hydrology Indicators NO Recorded Data(Describe in Remarks): **Primary Indicators** N/A Stream, Lake or Tide Gauge **NO Inundated** N/A Aerial Photographs NO Saturated in Upper 12 Inches N/A Other NO Water Marks **YES No Recorded Data** NO Drift Lines NO Sediment Deposits Field Observations NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) YES Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) YES Local Soil Survey Data YES FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks: Drought conditions

(1987 COE Wetlands Delineation Manual) Seneca Army Depot Project No: S-6580 1-Sep-1999 Project/Site: Date: Applicant/Owner: NYS DEC County: Seneca Janet Hunter; Jean Nagel State: New York Investigators: Plot ID: J-W-11 SOL'S Ma; Unit Name (Series and Phase): Ilion silty clay loam Map Symbol: is Drainage Class: poorly drained Mapped Hydric Inclusion? Taxonomy (Subgroup): mesic Mollic Ochraqualfs Field Observations Confirm Mapped Type? (Yes) No **Profile Description Matrix Color Mottle Color** Mottle Depth Horizon Texture, Concretions, Structure, etc. (inches) (Munsell Moist) (Munsell Moist) Abundance/Contrast 5-0 N/A N/A N/A N/A Silt loam 0-12 10YR3/2 7.5YR5/8 Many Distinct Silt loam Hydric Soil Indicators: **NO Histosol NO Concretions** NO High Organic Content in Surface Layer in Sandy Soils NO Histic Epipedon NO Sulfidic Odor NO Organic Streaking in Sandy Soils NO Aquic Moisture Regime YES Listed on Local Hydric Soils List NO Reducing Conditions YES Listed on National Hydric Soils List NO Gleyed or Low Chroma Colors YES Other (Explain in Remarks) Remarks: refusal at 12"-too dry WETLAND DETERMINATION Hydrophytic Vegetation Present? Is the Sampling Point within the Wetland? No (Yes) Yes Wetland Hydrology Present? Yes No Hydric Soils Present? No Yes Remarks:

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: S-6580 Date: 19-Aug-1999 Applicant/Owner: NYS DEC County: Seneca State: New York Investigators: Robert Dunn, Jean Nagel Plot ID: M-W-1 Community ID: wet Do Normal Circumstances exist on the site? Yes) Is the site significantly disturbed (Atypical Situation:)? Yes Transect ID: NO Is the area a potential Problem Area? Field Location: (If needed, explain on the reverse side) Near Transition flag F-6 VEGETATION (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator Herb OBL Eupatorium perfoliatum Herb FACW+ Juncus canadensis Rush.Canada Boneset,Common OBL Apocynum sibiricum Herb Typha latifolia Herb FAC Cattail, Broad-Leaf Dogbane,Prairie 3/3 = 100.00% Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: Numeric Index: 4/4 = 100.00%7/4 = 1.75(excluding FAC-) Remarks: **HYDROLOGY** Wetland Hydrology Indicators NO Recorded Data(Describe in Remarks): N/A Stream, Lake or Tide Gauge **Primary Indicators NO Inundated** N/A Aerial Photographs N/A Other YES Saturated in Upper 12 Inches NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits **Field Observations** NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) YES Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) NO Local Soil Survey Data YES FAC-Neutral Test Depth to Saturated Soil: = 2 (in.)NO Other (Explain in Remarks) Remarks: Drought conditions

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: S-6580 Date: 19-Aug-1999
Applicant/Owner: NYS DEC County: Seneca
Investigators: Robert Dunn, Jean Nagel State: New York
Plot ID: M-W-1

SOILS

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)		ottle ce/Contrast	Texture, Concretions, Structure, etc
1-0	0	N/A	N/A	N/A	N/A	Silt loam
0-10	Α	2.5Y4/2	7.5YR6/8 10YR5/8	Few Few	Distinct Distinct	Clay loam
10+	Bg	2.5Y3/2	10YR5/8	Many	Distinct	Clay loam
Hydric So	NO Sulfic NO Aquic NO Redu	sol c Epipedon		NO Hig NO Org YES Lis YES Lis	ganic Streak sted on Loca sted on Natio	Content in Surface Layer in Sandy Soils king in Sandy Soils Il Hydric Soils List onal Hydric Soils List in Remarks)

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	Yes No Yes No Yes No	Is the Sampling Point within the Wetland?	
Remarks:			

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project No: S-6580 19-Aug-1999 Project/Site: Date: Applicant/Owner: NYS DEC County: Seneca Robert Dunn, Jean Nagel State: New York Investigators: Piot ID: M-U-1 Do Normal Circ instances exist on the site? No Community ID: Upland Yes Is the site significantly disturbed (Atypical Situation:)? Transect ID: Yes No Is the area a potential Problem Area? Field Location: Yes Near Transition flag F-6 (If needed, explain on the reverse side) **VEGETATION** (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator Parthenocissus quinquefolia Juglans nigra FACU Herb FACU Tree Creeper, Virginia Walnut,Black Toxicodendron radicans Herb FAC Tilia americana Tree FACU Basswood, American Ivy Poison Acer saccharum Tree FACU-Maple,Sugar Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 0/4 = 0.00%Numeric Index: 19/5 = 3.80(excluding FAC-) 1/5 = 20.00%Remarks: **HYDROLOGY** NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators Primary Indicators N/A Stream, Lake or Tide Gauge N/A Aerial Photographs NO Inundated NO Saturated in Upper 12 Inches N/A Other NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits Field Observations NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) NO Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves N/A (in.) Depth to Free Water in Pit: NO Local Soil Survey Data NO FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks: Drought conditions

(1987 COE Weta and S Delineation Manual)

Project/Site: Seneca Army Depot
Applicant/Owner: NYS DEC
Investigators: Robert Dunn, Jean Nagel

Project No: S-6580
Date: 19-Aug-1999
County: Seneca
State: New York
Plot ID: M-U-1

SOILS

Map Sym	bol: DaA y (Subgrou	es and Phase): Drainage Class: p): Aeric Ochraqua	somewhat poorly of		Map	ped Hydric Inclusion? Ovid, Ilion, Angola ervations Confirm Mapped Type? Yes
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)		ttle e/Contrast	Texture, Concretions, Structure, etc
4-0	0	N/A	N/A	N/A	N/A	Silt loam
0-8	A	10YR3/2	N/A	N/A	N/A	Loam, trace clay
8+	В	10YR5/6	N/A	N/A	N/A	Loam, trace clay
lydric Sc	NO Sulfic NO Aquic NO Redu	sol c Epipedon		NO Hig NO Org NO List	anic Streak ted on Loca ted on Natio	content in Surface Layer in Sandy Soils ing in Sandy Soils I Hydric Soils List onal Hydric Soils List in Remarks)

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	Yes No Yes No Yes No	Is the Sampling Point within the Wetland?	Yes No
Remarks:			
•			

(1987 COE Wetlands Delineation Manual)

Seneca Army Depot Project No: S-6580 2-Jun-1999 Project/Site: Date: County: Seneca Applicant/Owner: NYS DEC Robert Dunn, Janet Hunter State: New York Investigators: Plot ID: K-W-1 Community ID: wet Yes Do Normal Circumstances exist on the site? No Transect ID: Is the site significantly disturbed (Atypical Situation:)? Yes No Is the area a potential Problem Area? Field Location: No Yes (If needed, explain on the reverse side) Near Transition flag B-1 (USFWS Region No. 1, Sub-Region, Great Lakes Plain) **VEGETATION** Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator Agrostis alba FACW Herb Herb Carex vulpinoidea OBL Sedge,Fox Redtop Scirpus atrovirens Herb OBL Lysimachia nummularia Herb OBL Jennie, Creeping Bulrush, Green Herb FACW+ Juncus effusus Rush, Soft Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 5/5 = 100.00%7/5 = 1.405/5 = 100.00% Numeric Index: (excluding FAC-) Remarks: **HYDROLOGY** Wetland Hydrology Indicators NO Recorded Data(Describe in Remarks): N/A Stream, Lake or Tide Gauge **Primary Indicators** N/A Aerial Photographs NO Inundated N/A Other YES Saturated in Upper 12 Inches NO Water Marks YES No Recorded Data NO Drift Lines YES Sediment Deposits Field Observations NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) YES Oxidized Root Channels in Upper 12 Inches YES Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) NO Local Soil Survey Data YES FAC-Neutral Test Depth to Saturated Soil: = 6 (in.)NO Other (Explain in Remarks) Remarks:

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: S-6580 Date: 2-Jun-1999
Applicant/Owner: NYS DEC County: Seneca
Investigators: Robert Dunn, Janet Hunter State: New York
Plot ID: K-W-1

SOILS

Map Sym	bol: Is y (Subgrou	ies and Phase): Drainage Class: up): mesic Mollic Oc	poorly drained			ped Hydric Inclusion? servations Confirm Mapped Type? Yes
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mot Abundance		Texture, Concretions, Structure, etc
2-0	O	N/A	N/A	N/A	N/A	Silt loam
0-8	Α	10YR3/1	N/A	N/A	N/A	Clay loam, trace silt
8-14	В	10YR3/4	10YR4/1 7.5YR4/4	Few Common	Distinct Faint	Clay loam, trace silt
14+	Bw	2.5Y3/2	10YR5/6	Few	Distinct	Clay loam, trace silt
Hydric So	NO Sulfic NO Aquic NO Redu	osol c Epipedon		NO Orga YES Liste YES Liste	n Organic C anic Streak ed on Loca ed on Natio	Content in Surface Layer in Sandy Soils king in Sandy Soils al Hydric Soils List onal Hydric Soils List in Remarks)

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	Yes Yes Yes	No No No	Is the Sampling Point within the Wetland?	Yes No	
Remarks: Sunny, muggy, 88 degrees		,			

(1987 COE Wetlands Delinestion Manual)

Project/Site: Seneca Army Depot Project No: S-6580 Date: 2-Jun-1999 Applicant/Owner: NYS DEC County: Seneca Investigators: Robert Dunn, Janet Hunter State: New York Plot ID: K-U-1 Do Normal Circumstances exist on the site? Yes Cor munity ID: Upland No Is the site significantly disturbed (Atypical Situation:)? Yes Transect ID: NO Is the area a potential Problem Area? Field Location: Yes No (If needed, explain on the reverse side) Near Transition flag B-1 VEGETATION (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator Dactylis glomerata Herb FACU Daucus carota Herb Grass, Orchard Queen Anne's Lace Solidago canadensis Herb FACU Trifolium pratense Herb FACU-Golden-Rod, Canada Clover,Red Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 0/3 = 0.00%(excluding FAC-) 0/3 = 0.00%Numeric Index: 12/3 = 4.00Remarks: **HYDROLOGY** NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators N/A Stream, Lake or Tide Gauge **Primary Indicators** N/A Aerial Photographs **NO Inundated** N/A Other NO Saturated in Upper 12 Inches NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits Field Observations NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) NO Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) NO Local Soil Survey Data NO FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks:

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: S-6580 Date: 2-Jun-1999 Applicant/Owner: NYS DEC County: Seneca Investigators: Robert Dunn, Janet Hunter State: New York Plot ID: K-U-1 SOILS Map Unit Name (Series and Phase): Darien silt loam 0-3 percent slopes Map Symbol: DaA Drainage Class: somewhat poorly drained Mapped Hydric Inclusion? Ovid, Ilion, Angola Taxonomy (Subgroup): Aeric Ochraqualfs Field Observations Confirm Mapped Type? Yes No **Profile Description** Depth Matrix Color Mottle Color Mottle Texture, Concretions, Structure, etc Horizon (inches) (Munsell Moist) (Munsell Moist) Abundance/Contrast 2-0 O N/A N/A N/A N/A Silt loam 0-14 10YR4/3 N/A N/A N/A Clay loam, trace silt Hydric Soil Indicators: **NO Histosol NO Concretions** NO Histic Epipedon NO High Organic Content in Surface Layer in Sandy Soils NO Sulfidic Odor NO Organic Streaking in Sandy Soils NO Aquic Moisture Regime NO Listed on Local Hydric Soils List NO Reducing Conditions NO Listed on National Hydric Soils List NO Gleyed or Low Chroma Colors NO Other (Explain in Remarks) Remarks: refusal @ 14" soil powder dry WETLAND DETERMINATION Is the Sampling Point within the Wetland? Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Yes No Hydric Soils Present? Yes No Remarks:

(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: S-6580 2-Jun-1999 Date: Applicant/Owner: NYS DEC County: Seneca Investigators: Robert Dunn, Janet Hunter State: New York Plot ID: L-W-1

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 the reverse side)

Yes) No Yes No Yes

Community ID: wet Transect ID: Field Location:

Near Transition flag D-12

VEGETATION

(USFWS Region No. 1, Sub-Region, Great Lakes Plain)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicato
Phalaris arundinacea	Herb	FACW+	Rosa multiflora	Shrub	FACU
Grass,Reed Canary	7		Rose,Multiflora		İ
Equisetum palustre	Herb	FACW	Rhamnus cathartica	Shrub	UPL
Horsetail, Marsh	1		Buckthorn,Common		İ
Carex crinita	Herb	OBL	Fraxinus pennsylvanica	Shrub	FACW
Sedge,Fringed	7		Ash,Green		
Carex x stipata	Herb	OBL	Acer saccharinum	Tree	FACW
Sedge,Stalk-Grain	7		Maple,Silver		
Glyceria striata	Herb	OBL	Fraxinus pennsylvanica	Tree	FACW
Grass,Fowl Manna			Ash,Green		
	-				
	-				
Percent of Dominant Species that are OBI	L, FACW o	FAC:	FAC Neutral: 8/10 = 80.00%		

(excluding FAC-) Remarks:

8/10 = 80.00%

Numeric Index: 22/10 = 2.20

HYDROLOGY

NO Recorded Data(Describe in Re	narks):	Wetland Hydrology Indicators
N/A Stream, Lake or Tide Gau	ige	Primary Indicators
N/A Aerial Photographs		NO Inundated
N/A Other		YES Saturated in Upper 12 Inches
YES No Recorded Data		NO Water Marks
No Recorded Data		NO Drift Lines
		NO Sediment Deposits
Field Observations		YES Drainage Patterns in Wetlands
		Secondary Indicators (2 or more required):
Depth of Surface Water:	N/A (in.)	YES Oxidized Root Channels in Upper 12 Inches
	N1/A //)	NO Water-Stained Leaves
Depth to Free Water in Pit:	N/A (in.)	NO Local Soil Survey Data
Depth to Saturated Soil:	= 0 (in.)	YES FAC-Neutral Test
Depui to Saturated Soil.	- 0 (111.)	NO Other (Explain in Remarks)

standing water in adjacent stream

DATA FORM

ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Seneca Army Depot Project/Site: Project No: S-6580 Date: 2-Jun-1999 Applicant/Owner: NYS DEC County: Seneca Investigators: Robert Dunn, Janet Hunter State: New York Plot ID: L-W-1 SOILS Map Unit Name (Series and Phase): Ilion silty clay loam Map Symbol: Is Drainage Class: poorly drained Mapped Hydric Inclusion? Taxonomy (Subgroup): mesic Mollic Ochraqualfs Field Observations Confirm Mapped Type? Yes No **Profile Description** Depth Matrix Color **Mottle Color** Mottle Horizon Texture, Concretions, Structure, etc. (inches) (Munsell Moist) Abundance/Contrast (Munsell Moist) O N/A N/A N/A N/A Silt loam 4-0 0-12 2.5Y3/1 2.5Y5/1 Few Distinct Silty clay 7.5YR6/8 **Distinct** Many 10YR4/1 12+ Bg Many Prominent Silty clay, trace sand 10YR3/2 Hydric Soil Indicators: **NO Histosol NO Concretions** NO Histic Epipedon NO High Organic Content in Surface Layer in Sandy Soils NO Sulfidic Odor NO Organic Streaking in Sandy Soils NO Aquic Moisture Regime YES Listed on Local Hydric Soils List **NO Reducing Conditions** YES Listed on National Hydric Soils List NO Gleyed or Low Chroma Colors NO Other (Explain in Remarks) Remarks:

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	Yes No Yes No	Is the Sampling Point within the Wetland? Yes No
Remarks:	(00)	<u> </u>
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(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot Project No: S-6580 Date: 2-Jun-1999 Applicant/Owner: NYS DEC County: Seneca Investigators: Robert Dunn, Janet Hunter State: New York Plot ID: L-U-1 Do Normal Circumstances exist on the site? Community ID: Upland Yes Is the site significantly disturbed (Atypical Situation:)? Transect ID: No Yes is the area a potential Problem Area? Field Location: Yes Near Transition flag D-12 (If needed, explain on the reverse side) VEGETATION (USFWS Region No. 1, Sub-Region, Great Lakes Plain) Dominant Plant Species(Latin/Common) Stratum Indicator Plant Species(Latin/Common) Stratum Indicator Parthenocissus quinquefolia Herb FACU Xanthoxylum americanum Shrub N Creeper, Virginia Prickly-ash, Northern Toxicodendron quercifolia Herb FACU Rosa multiflora Shrub FACU Oak.Poison Rose Multiflora Rhamnus cathartica Shrub ÜPL Acer saccharinum Tree FACW Buckthorn, Common Maple, Silver Percent of Dominant Species that are OBL, FACW or FAC: FAC Neutral: 1/5 = 20.00%(excluding FAC-) 1/5 = 20.00%Numeric Index: 19/5 = 3.80Remarks: HYDROLOGY NO Recorded Data(Describe in Remarks): Wetland Hydrology Indicators N/A Stream, Lake or Tide Gauge **Primary Indicators** N/A Aerial Photographs **NO Inundated** N/A Other NO Saturated in Upper 12 Inches NO Water Marks YES No Recorded Data NO Drift Lines NO Sediment Deposits **Field Observations** NO Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Depth of Surface Water: N/A (in.) NO Oxidized Root Channels in Upper 12 Inches NO Water-Stained Leaves Depth to Free Water in Pit: N/A (in.) NO Local Soil Survey Data NO FAC-Neutral Test Depth to Saturated Soil: N/A (in.) NO Other (Explain in Remarks) Remarks:

(1987 COE Wetlands Delineation Manual) Project/Site: Project No: S-6580 Seneca Army Depot Date: 2-Jun-1999 Applicant/Owner: NYS DEC County: Seneca Investigators: Robert Dunn, Janet Hunter State: New York Plot ID: L-U-1 SOILS Map Unit Name (Series and Phase): Darien silt loam 0-3 percent slopes Map Symbol: DaA Drainage Class: somewhat poorly drained Mapped Hydric Inclusion? Ovid, Ilion, Angola Taxonomy (Subgroup): Aeric Ochraqualfs Field Observations Confirm Mapped Type? Yes No **Profile Description** Depth **Matrix Color Mottle Color** Mottle Horizon Texture, Concretions, Structure, etc. (inches) (Munsell Moist) (Munsell Moist) Abundance/Contrast 2-0 N/A N/A N/A N/A Silt loam 10YR3/3 N/A N/A 0-16 N/A Clay loam, trace silt N/A 16+ 10YR4/4 N/A N/A Clay loam, trace silt Hydric Soil Indicators: **NO Histosol NO Concretions** NO Histic Epipedon NO High Organic Content in Surface Layer in Sandy Soils NO Sulfidic Odor NO Organic Streaking in Sandy Soils NO Aquic Moisture Regime NO Listed on Local Hydric Soils List **NO Reducing Conditions** NO Listed on National Hydric Soils List NO Gleyed or Low Chroma Colors NO Other (Explain in Remarks) Remarks: depth pit 20 " WETLAND DETERMINATION

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	Yes No Yes No Yes No	Is the Sampling Point within the Wetland?	Yes No	
Remarks:				
			STOR KIND COLL. THE WAY	

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EARTH TECH