104-14
(2+ maps lg. 1 small insert)

Wetlands Delineation Report
Seneca Army Depot
Romulus, New York
S7017

Prepared for:
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Division of Fish and Wildlife
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November 1999

earthtech engineering and technology for the planet.

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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.

Environmental Laboratory, 1987. Corps of Engineers Wetland Delineation Manual, Technical Report y-87-1, U. S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MP.

Reed, P. B. Jr., 1988. National List of Plant Species That Occur in Wetlands: National Summary. U. S. Fish and Wildlife Service Biological Report 88(24), 244p.

New York Natural Heritage Program, 1990. New York State Department of Environmental Conservation, Ecological Communities of New York State, NYSDEC, Latham, New York.

United States Department of Agricultural Soil conservation Service, 1976. Soil Survey of Seneca County, NY.

United States Geological Survey, 1954, Photorevised 1971. Seneca Quadrangle.

FIGURES

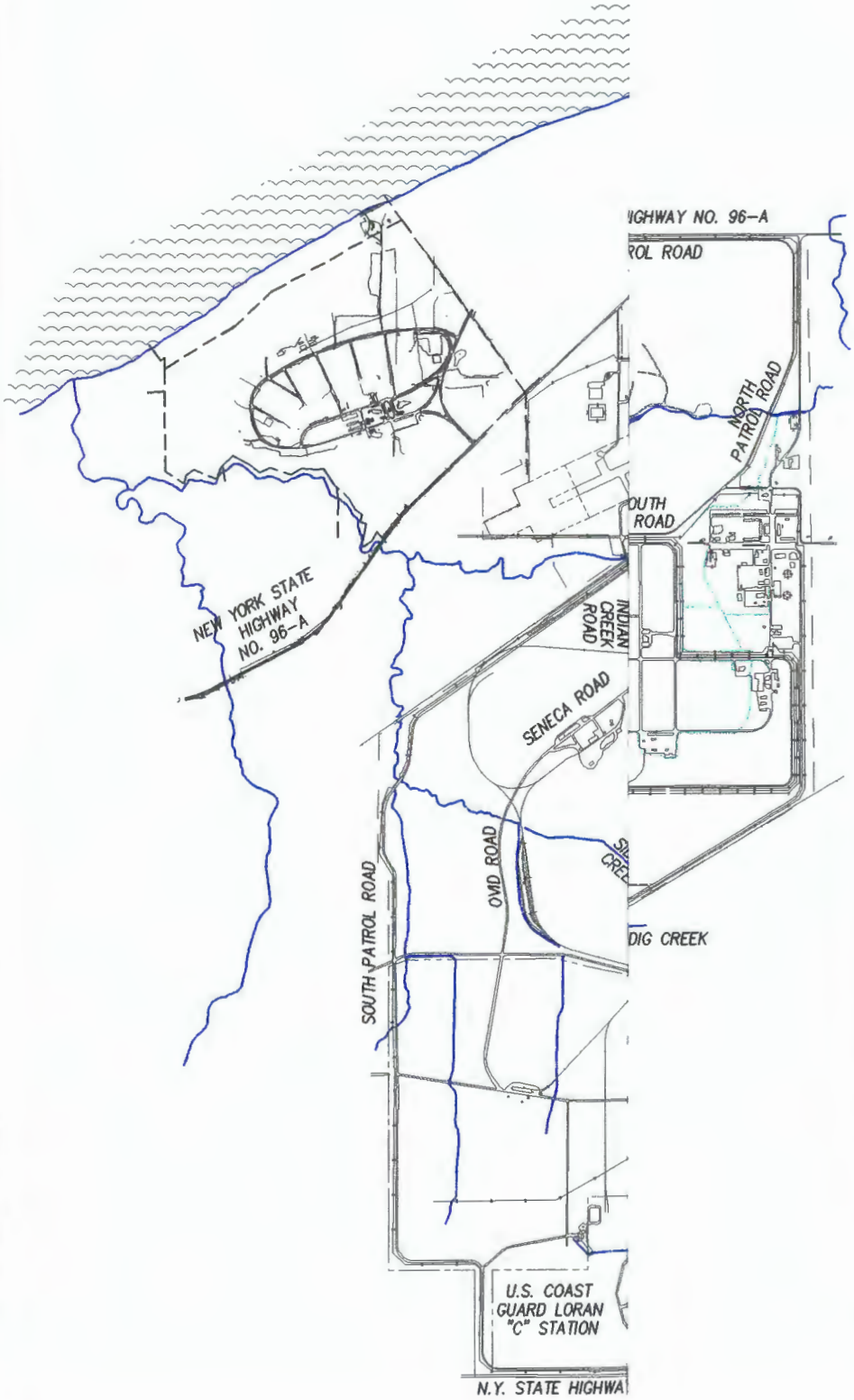


Figure 2
Area of N.Y.O.G.S. & E.T. Wetlands Delineation

WETLAND DELINEATION REPORT

SENECA ARMY DEPOT

Seneca County, New York

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

0 1000 2000 3000

SCALE IN FEET

November 1999

Proj: 36890

1 ¾ ½ ¼ 1 Mile

5000 4000 3000 2000 1000 5000 Feet

LEGEND

DaA - Darien Silt Loam

Is - Ilion Silt Clay Loam

E A R T H T E C H

A tyco INTERNATIONAL LTD. COMPANY

FIGURE 3
SOILS MAP
WETLAND DELINEATION

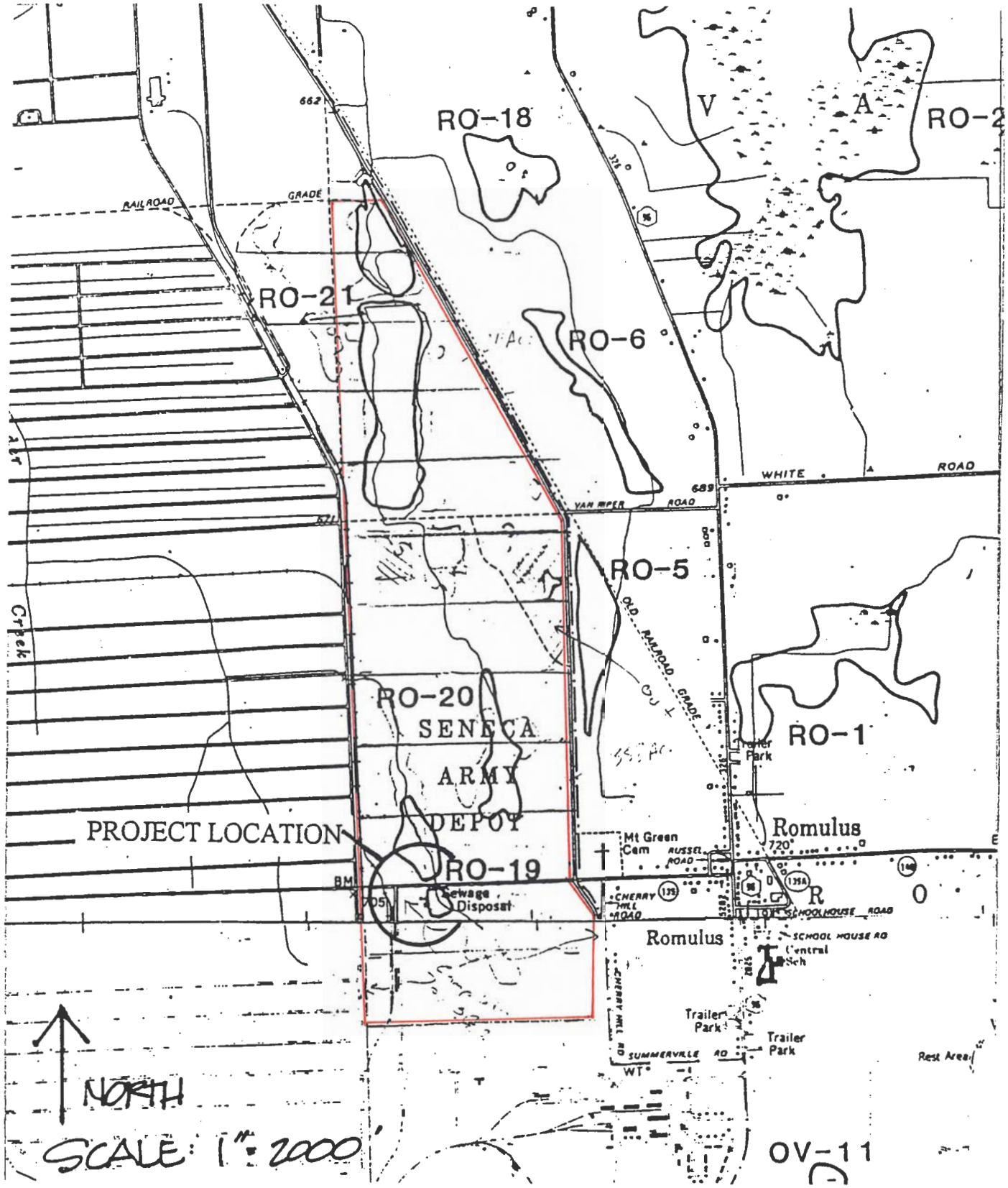
SENECA ARMY DEPOT
SENECA COUNTY, NEW YORK

SEPT 1999

36890

PLOT DATE: 10-28-1999

FILE NAME: 36890\SOILS.DWG



EARTH TECH

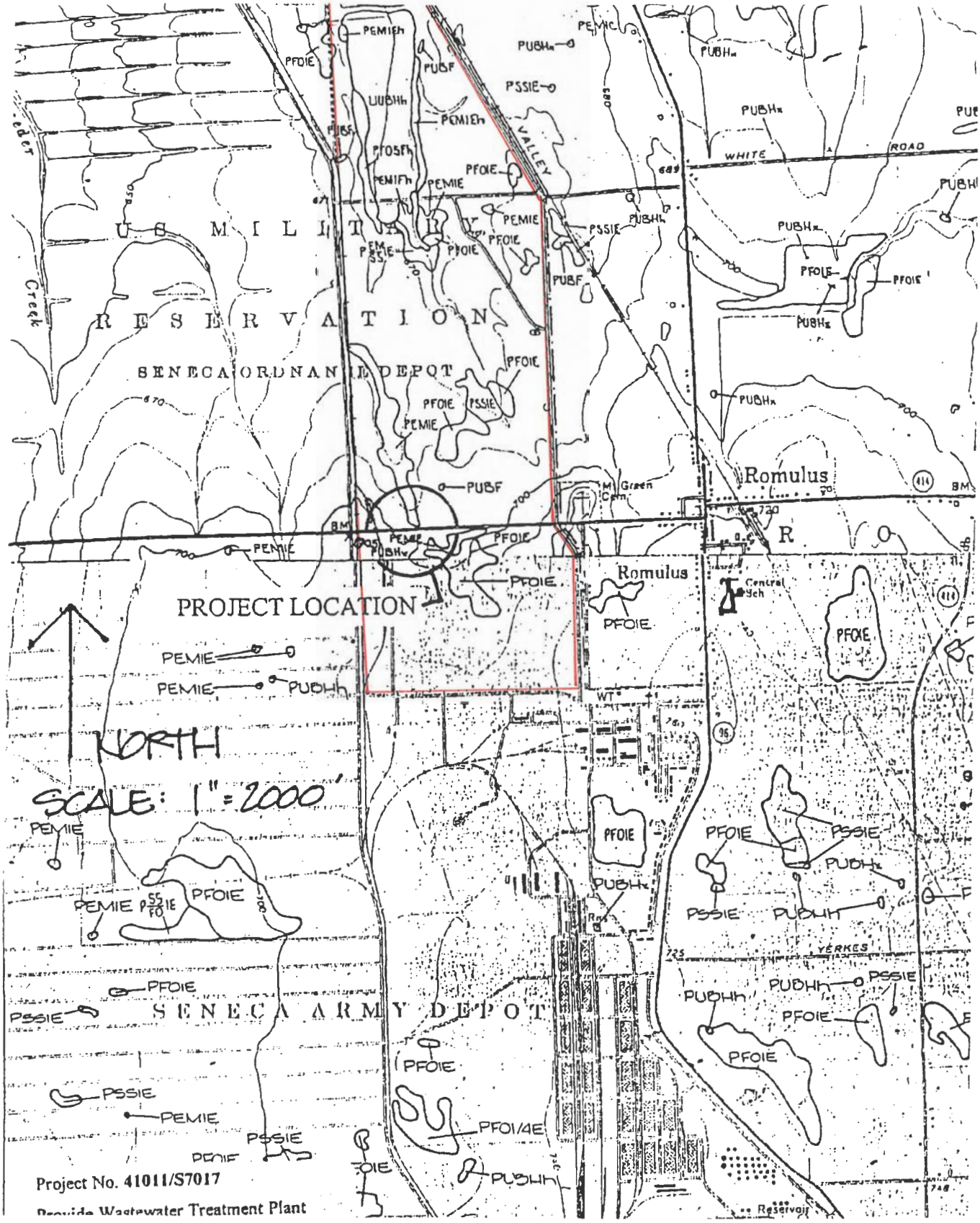
A tyco INTERNATIONAL LTD. COMPANY

FIGURE 4
NYSDEC REGULATED WETLANDS
SENECA ARMY DEPOT
SENECA COUNTY, NEW YORK

SEPT 1999

36890

L:\work\36890\CADD\soils.dgn 15 OCT 1999



EARTH TECH

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FIGURE 5

NATIONAL WETLAND INVENTORY WETLANDS

SENECA ARMY DEPOT

SENECA COUNTY, NEW YORK

SEPT 1999

36890

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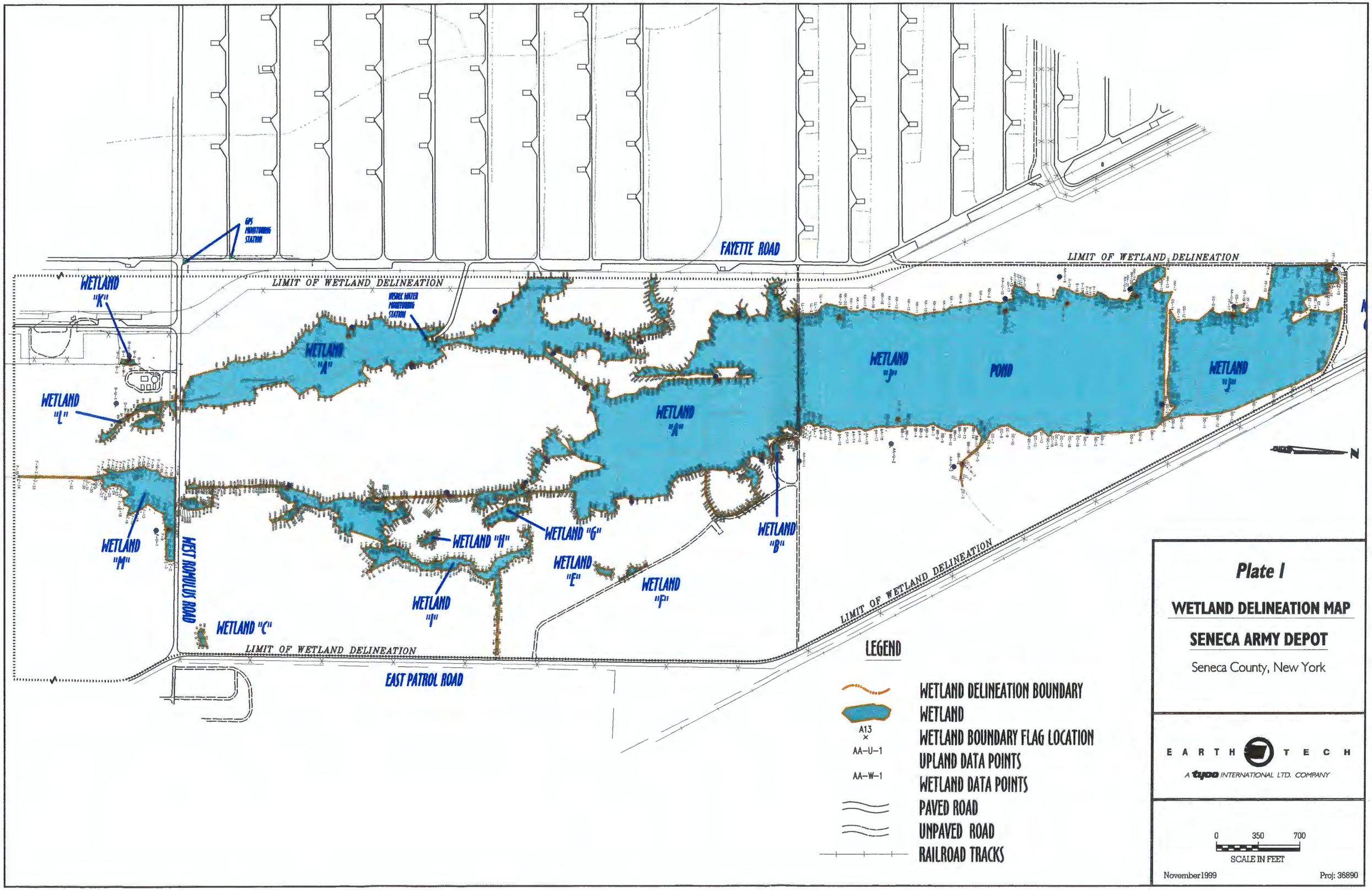
PLATES


GPS MONITORING STATION
FAYETTE ROAD
LIMIT OF WETLAND DELINEATION
WETLAND "K"
MSBEC WATER MONITORING STATION
WETLAND "A"
WETLAND "J"
POND
WETLAND "J"
WETLAND "L"
WETLAND "A"
WETLAND "M"
WETLAND "H"
WETLAND "G"
WETLAND "B"
WETLAND "E"
WETLAND "F"
WETLAND "I"
WEST ROMULUS ROAD
WETLAND "C"
EAST PATROL ROAD
N
LEGEND
WETLAND DELINEATION BOUNDARY
WETLAND
A13
WETLAND BOUNDARY FLAG LOCATION
AA-U-1
UPLAND DATA POINTS
AA-W-1
WETLAND DATA POINTS
PAVED ROAD
UNPAVED ROAD
RAILROAD TRACKS
Plate I
WETLAND DELINEATION MAP
SENECA ARMY DEPOT
Seneca County, New York
EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY
0 350 700
SCALE IN FEET
November1999
Proj: 36890

APPENDIX A

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.

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.

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) occuring very near the Wild Carrot, Hawkweed and Tall Goldenrod (All FACU or higher).

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.

APPENDIX B

DATA FORM

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?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-24.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Typha angustifolia	Herb	OBL	*Solidago altissima*	Herb	FACU-
Cattail,Narrow-Leaf			Golden-Rod,Tall		
Cornus amomum	Shrub	FACW	*Impatiens capensis*	Herb	FACW
Dogwood,Silky			Touch-Me-Not,Spotted		
Viburnum lentago	Shrub	FAC			
Nannyberry					

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 4/5 = 80.00%

FAC Neutral: 3/4 = 75.00%
Numeric Index: 12/5 = 2.40

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):
- 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.

DATA FORM

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

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 Endoaqualfs **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
0-10	A	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
Wetland Hydrology Present?	(Yes) No	
Hydric Soils Present?	(Yes) No	

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

DATA FORM

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-U-1	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** UPL
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-24

VEGETATION **(USFWS Region No. 1)**

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

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

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 **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.

DATA FORM

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-U-1

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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
0-4	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 **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:

Plot located at Wetland Delineation flag A-24.

DATA FORM

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-2

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-57

VEGETATION **(USFWS Region No. 1)**

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

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 6/6 = 100.00%

FAC Neutral: 6/6 = 100.00%
Numeric Index: 10/6 = 1.67

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**
- NO **Water-Stained Leaves**
- NO **Local Soil Survey Data**
- YES **FAC-Neutral Test**
- NO **Other (Explain in Remarks)**

Remarks:
Drought conditions.

DATA FORM

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-2	

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 Endoaqualfs **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
0-4	A	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 FORM

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-U-2	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** UPL
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-57

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Cornus amomum Dogwood,Silky	Herb	FACW	*Phleum pratense* Timothy	Herb	FACU
Solidago odora Goldenrod, Sweet	Herb	NI	*Daucus carota* Wild Carrot	Herb	NI

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 1/2 = 50.00%

FAC Neutral: 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: 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.

DATA FORM

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-U-2

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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
0-4	A	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.

DATA FORM

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-3

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-102.

VEGETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Typha latifolia Cattail,Broad-Leaf	Herb	OBL	*Carex crinita* Sedge,Fringed	Herb	OBL
Lythrum salicaria Loosestrife,Purple	Herb	FACW+	*Mentha arvensis* Mint,Field	Herb	FACW

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 4/4 = 100.00%

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

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: = 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.

DATA FORM

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-3

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 Endoaqualfs **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
0-3	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?	(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 FORM

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-U-3

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** UPL
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-102.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
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					

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 0/3 = 0.00%

FAC Neutral: 0/3 = 0.00%
Numeric Index: 12/3 = 4.00

Remarks:
No trees, saplings, 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.)*

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.

DATA FORM

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-U-3

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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	A	2.5Y5/4	N/A	N/A	N/A	Silty clay loam
8+	B	10YR5/1	N/A	N/A	N/A	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:
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 FORM

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-4	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-146.

VEGETATION **(USFWS Region No. 1)**

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

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 7/8 = 87.50%

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

Remarks:
U. rubra and P. tremula are saplings.

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**
- 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:
Low lying drainage area.

DATA FORM

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-4

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 Endoaqualfs **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
0-2	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+	B	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**
- 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
Wetland Hydrology Present?	(Yes) No	
Hydric Soils Present?	(Yes) No	

Remarks:
At Wetland Delineation flag A-146.

DATA FORM

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-U-4

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** UPL
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-146.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Daucus carota	Herb	NI	*Phleum pratense*	Herb	FACU
Wild Carrot			Timothy		
Solidago odora	Herb	NI			
Goldenrod, Sweet					

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 0/1 = 0.00%

FAC Neutral: 0/1 = 0.00%
Numeric Index: 4/1 = 4.00

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):
- 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 FORM

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-U-4

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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
0-12	A	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? Yes (No)
Wetland Hydrology Present?	Yes (No)	
Hydric Soils Present?	Yes (No)	

Remarks:

At Wetland Delineation flag A-146.

DATA FORM

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?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-180.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Robinia pseudoacacia Locust,Black	Tree	FACU-	*Crataegus crus-galli* Hawthorn,Cockspur	Shrub	FACU
Ulmus rubra Elm,Slippery	Tree	FAC	*Toxicodendron radicans* Ivy,Poison	Herb	FAC
Fraxinus pennsylvanica Ash,Green	Tree	FACW	*Fraxinus pennsylvanica* Ash,Green	Herb	FACW
Robinia pseudoacacia Locust,Black	Shrub	FACU-	*Potentilla simplex* Cinquefoil,Old Field	Herb	FACU-
Cornus amomum Dogwood,Silky	Shrub	FACW			

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 5/9 = 55.56%	**FAC Neutral:** 3/7 = 42.86% **Numeric Index:** 28/9 = 3.11

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**
- YES **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**
- NO **FAC-Neutral Test**
- NO **Other (Explain in Remarks)**

Remarks:
Drought conditions. Scouring evident. Flood plain area.

DATA FORM

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

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 Endoaqualfs **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
0-3	A	10YR3/2	N/A	N/A	N/A	Silty clay loam
3-8	B	10YR4/1	10YR5/6	Common	Distinct	Silty clay loam
8-18+	B	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 FORM

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-U-5	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** UPL
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-180.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Quercus alba	Tree	FACU-	*Ulmus rubra*	Tree	FAC
Oak,White			Elm,Slippery		
Carya ovata	Tree	FACU-	*Robinia pseudoacacia*	Shrub	FACU-
Hickory,Shag-Bark			Locust,Black		
Robinia pseudoacacia	Tree	FACU-	*Crataegus crus-galli*	Shrub	FACU
Locust,Black			Hawthorn,Cockspur		
Fraxinus pennsylvanica	Tree	FACW			
Ash,Green					

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 2/7 = 28.57%

FAC Neutral: 1/6 = 16.67%
Numeric Index: 25/7 = 3.57

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):
- 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 FORM

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-U-5	

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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	A	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

DATA FORM

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-W-6

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area? (If needed, explain on the reverse side)	Yes (No)	**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	Indicator
Viburnum lentago Nannyberry	Shrub	FAC	*Lobelia cardinalis* Flower,Cardinal	Herb	FACW+
Viburnum recognitum Arrow-Wood,Northern	Shrub	FACW-	*Rubus wheeleri* Dewberry	Herb	FACW
Thalictrum pubescens Meadow-Rue,Tall	Herb	FACW+	*Leersia oryzoides* Cutgrass,Rice	Herb	OBL
Eupatorium perfoliatum Boneset,Common	Herb	FACW+	*Boehmeria cylindrica* False-Nettle,Small-Spike	Herb	FACW+

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 8/8 = 100.00%	**FAC Neutral:** 7/7 = 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 FORM

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-W-6

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 Endoaqualfs **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
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+	B	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

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 Wetland Delineation flag A-200

DATA FORM

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?	(Yes) No	**Community ID:** UPL
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-200.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Solidago altissima	Herb	FACU-	*Crataegus crus-galli*	Shrub	FACU
Golden-Rod,Tall			Hawthorn,Cockspur		
Robinia pseudoacacia	Herb	FACU-	*Robinia pseudoacacia*	Shrub	FACU-
Locust,Black			Locust,Black		
Mitchella repens	Herb	FACU	*Fraxinus americana*	Shrub	FACU
Partridge-Berry			Ash,White		
Toxicodendron radicans	Herb	FAC	*Cornus foemina*	Shrub	FAC
Ivy,Poison			Dogwood,Stiff		

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 2/8 = 25.00%	**FAC Neutral:** 0/6 = 0.00% **Numeric Index:** 30/8 = 3.75

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):
- 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 FORM

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

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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	A	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 FORM

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-W-7

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-536.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Typha latifolia Cattail,Broad-Leaf	Herb	OBL	*Scirpus atrovirens* Bulrush,Green	Herb	OBL
Lythrum salicaria Loosestrife,Purple	Herb	FACW+	*Blephilia hirsuta* Woodmint,Hairy	Herb	FACU-
Mentha arvensis Mint,Field	Herb	FACW			

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 4/5 = 80.00%

FAC Neutral: 4/5 = 80.00%
Numeric Index: 10/5 = 2.00

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):
- 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.

DATA FORM

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-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 Endoaqualfs **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
0-10	A	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 FORM

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-7

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** UPL
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area? (If needed, explain on the reverse side)	Yes (No)	**Field Location:** At Wetland Delineation flag A-536.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Elaeagnus angustifolia	Shrub	FACU	*Phleum pratense*	Herb	FACU
Olive,Russian			Timothy		
Cornus foemina	Shrub	FAC	*Hieracium gronovii*	Herb	UPL
Dogwood,Stiff			Hawkweed,Gronov's		
Solidago odora	Herb	NI	*Sonchus oleraceus*	Herb	UPL
Goldenrod, Sweet			Sowthistle,Common		
Solidago altissima	Herb	FACU-	*Fragaria virginiana*	Herb	FACU
Golden-Rod,Tall			Strawberry,Virginia		
Daucus carota	Herb	NI			
Wild Carrot					

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 1/7 = 14.29%	**FAC Neutral:** 0/6 = 0.00% **Numeric Index:** 29/7 = 4.14

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.

DATA FORM

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-7

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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
0-6	A	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 **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-536.

DATA FORM

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-W-8	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-583.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Typha latifolia	Herb	OBL	*Agrostis alba*	Herb	FACW
Cattail,Broad-Leaf			Redtop		
Lythrum salicaria	Herb	FACW+	*Cornus foemina*	Herb	FAC
Loosestrife,Purple			Dogwood,Stiff		
Scirpus atrovirens	Herb	OBL			
Bulrush,Green					

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 5/5 = 100.00%	**FAC Neutral:** 4/4 = 100.00% **Numeric Index:** 9/5 = 1.80

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):
- 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.

DATA FORM

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-W-8

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 Endoaqualfs **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
0-10	A	10YR2/1	10YR3/3	Few	Faint	Silty clay loam
10-18+	B	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 FORM

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-8	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** UPL
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-583.

VEGETATION

(USFWS Region No. 1)

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

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 3/6 = 50.00%	**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: 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 FORM

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-8

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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	A	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 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.		**County:** Seneca
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York
		Plot ID: A-W-9

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-630

VEGETATION **(USFWS Region No. 1)**

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

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 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**
- YES **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**
- NO **Other (Explain in Remarks)**

Remarks:
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.		**County:** Seneca
Investigators: Richard S. Totino, Marc Bergeron		**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 **Mapped Hydric Inclusion?**

Taxonomy (Subgroup): mesic Mollic Endoaqualfs **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
0-6	A	10YR3/1	N/A	N/A	N/A	Silty clay loam
6-18+	B	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 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.		**County:** Seneca
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York
		Plot ID: A-U-10

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** UPL
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-630.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Crataegus crus-galli	Shrub	FACU	*Phleum pratense*	Herb	FACU
Hawthorn,Cockspur			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		

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 2/7 = 28.57%	**FAC Neutral:** 1/6 = 16.67% **Numeric Index:** 26/7 = 3.71

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: 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 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.		**County:** Seneca
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York
		Plot ID: A-U-10

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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	A	10YR3/1	N/A	N/A	N/A	Silty clay loam
8-18+	B	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:
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 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.		**County:** Seneca
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York
		Plot ID: A-W-10

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-689.

VEGETATION **(USFWS Region No. 1)**

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

Percent of Dominant Species that are OBL, FACW or FAC:	**FAC Neutral:** 5/6 = 83.33%
(excluding FAC-) 6/7 = 85.71%	**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**
- 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**
- 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.

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.		**County:** Seneca
Investigators: Richard S. Totino, Marc Bergeron		**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 **Mapped Hydric Inclusion?**

Taxonomy (Subgroup): mesic Mollic Endoaqualfs **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
0-6	A	10YR2/1	N/A	N/A	N/A	Silty clay loam
6-18+	B	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.

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.		**County:** Seneca	
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York	
		Plot ID: A-U-10	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** UPL
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-689.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Crataegus crus-galli	Shrub	FACU	*Daucus carota*	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	FAC	*Solidago altissima*	Herb	FACU-
Ivy,Poison			Golden-Rod,Tall		

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 4/7 = 57.14%	**FAC Neutral:** 2/5 = 40.00% **Numeric Index:** 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.)*

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:
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.		**County:** Seneca
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York
		Plot ID: A-U-10

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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
0-6	A	10YR3/1	N/A	N/A	N/A	Silty clay loam
6-18+	B	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)**

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:
Hydrophytic vegetation is present. No soils or hydrology. 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.		**County:** Seneca	
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York	
		Plot ID: A-W-11	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-725.

VEGETATION **(USFWS Region No. 1)**

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

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 7/7 = 100.00%

FAC Neutral: 7/7 = 100.00%
Numeric Index: 14/7 = 2.00

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**
- YES **Drainage Patterns in Wetlands**

Secondary Indicators (2 or more required):
- NO **Oxidized Root Channels in Upper 12 Inches**
- YES **Water-Stained Leaves**
- NO **Local Soil Survey Data**
- YES **FAC-Neutral Test**
- NO **Other (Explain in Remarks)**

Remarks:
Hummocky area. Water staining.

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.		**County:** Seneca
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York
		Plot ID: A-W-11

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 Endoaqualfs **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
0-10	A	10YR3/1	10YR5/6	N/A	N/A	Silty clay loam
10-18+	B	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 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.		**County:** Seneca	
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York	
		Plot ID: A-U-11	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-725.

VEGETATION **(USFWS Region No. 1)**

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

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 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.		**County:** Seneca
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York
		Plot ID: A-U-11

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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
0-6	A	10YR4/2	N/A	N/A	N/A	Silty clay loam
6-18+	B	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)**

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-725.

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.		**County:** Seneca	
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York	
		Plot ID: A-W-12	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-764.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Fraxinus pennsylvanica	Tree	FACW	*Cornus amomum*	Herb	FACW
Ash,Green			Dogwood,Silky		
Ulmus rubra	Tree	FAC	*Toxicodendron radicans*	Herb	FAC
Elm,Slippery			Ivy,Poison		
Crataegus crus-galli	Shrub	FACU	*Polygonum virginianum*	Herb	FAC
Hawthorn,Cockspur			Knotweed,Virginia		
Cornus amomum	Shrub	FACW			
Dogwood,Silky					

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 6/7 = 85.71%

FAC Neutral: 3/4 = 75.00%
Numeric Index: 19/7 = 2.71

Remarks:
No 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**
- YES **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 **Water-Stained Leaves**
- NO **Local Soil Survey Data**
- YES **FAC-Neutral Test**
- NO **Other (Explain in Remarks)**

Remarks:
Shallow root systems present. 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.		**County:** Seneca	
Investigators: 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 **Mapped Hydric Inclusion?**

Taxonomy (Subgroup): mesic Mollic Endoaqualfs **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
0-6	A	10YR4/1	10YR5/6	Common	Distinct	Silty clay loam
6-18+	B	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	

Remarks:
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.		**County:** Seneca	
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York	
		Plot ID: A-U-12	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** UPL
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-764.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Crataegus crus-galli	Shrub	FACU	*Vitis aestivalis*	Vine	FACU
Hawthorn,Cockspur			Grape,Summer		
Toxicodendron radicans	Herb	FAC			
Ivy,Poison					

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 1/3 = 33.33%

FAC Neutral: 0/2 = 0.00%
Numeric Index: 11/3 = 3.67

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: 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 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.		**County:** Seneca
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York
		Plot ID: A-U-12

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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
0-12	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.

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.		**County:** Seneca
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York
		Plot ID: A-W-13

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-818.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Populus deltoides Cotton-Wood,Eastern	Tree	FAC	*Solidago altissima* Golden-Rod,Tall	Herb	FACU-
Fraxinus pennsylvanica Ash,Green	Tree	FACW	*Phleum pratense* Timothy	Herb	FACU
Cornus stolonifera Dogwood,Red-Osier	Shrub	FACW+	*Fraxinus pennsylvanica* Ash,Green	Herb	FACW
Carex vulpinoidea Sedge,Fox	Herb	OBL			

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: 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**
- 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)

Project/Site: Seneca Army Depot	**Project No:** 36890	**Date:** 6-Oct-1999	
Applicant/Owner: NYS Office of General Svces.		**County:** Seneca	
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York	
		Plot ID: A-W-13	

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 Endoaqualfs **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
0-1	Oi	10YR3/3	N/A	N/A	N/A	Silty clay loam
1-10	B	10YR4/3	N/A	N/A	N/A	Silty clay loam
10-18+	B	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	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.

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.		**County:** Seneca	
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York	
		Plot ID: A-U-13	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** UPL
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area? (If needed, explain on the reverse side)	Yes (No)	**Field Location:** At Wetland Delineation flag A-818.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Daucus carota Wild Carrot	Herb	NI	*Solidago gigantea* Golden-Rod,Giant	Herb	FACW
Euthamia graminifolia Fragrant-Golden-Rod,Flat-Top	Herb	FAC	*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, FACW or FAC: (excluding FAC-) 5/6 = 83.33%

FAC Neutral: 2/3 = 66.67%
Numeric Index: 17/6 = 2.83

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):
- NO **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.

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.		**County:** Seneca
Investigators: Richard S. Totino, Marc Bergeron		**State:** New York
		Plot ID: A-U-13

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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
0-12	A	10YR5/1	N/A	N/A	N/A	Silt loam
12-18+	B	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?	(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-818.

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.		**County:** Seneca	
Investigators: Richard S. Totino, Terry Ramborger		**State:** New York	
		Plot ID: A-W-14	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-878.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Phragmites australis	Herb	FACW	*Solidago gigantea*	Herb	FACW
Reed,Common			Golden-Rod,Giant		
Cornus foemina	Herb	FAC	*Trifolium repens*	Herb	FACU-
Dogwood,Stiff			Clover,White		
Fraxinus pennsylvanica	Herb	FACW			
Ash,Green					

Percent of Dominant Species that are OBL, FACW or FAC:	**FAC Neutral:** 3/4 = 75.00%
(excluding FAC-) 4/5 = 80.00%	**Numeric Index:** 13/5 = 2.60

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**
- YES **FAC-Neutral Test**
- NO **Other (Explain in Remarks)**

Remarks:

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.		**County:** Seneca
Investigators: Richard S. Totino, Terry Ramborger		**State:** New York
		Plot ID: A-W-14

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 Endoaqualfs **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
0-0	A	N/A	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**
- YES **Listed on Local Hydric Soils List**
- NO **Listed on National Hydric Soils List**
- 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?	(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. Approx. 40-50 ft. West of stand-up piping system in lagoon. No soils sampled, no confirmatory hydrology data.

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.		**County:** Seneca
Investigators: Richard S. Totino, Terry Ramborger		**State:** New York
		Plot ID: A-U-14

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** UPL
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-878.

VEGETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Daucus carota	Herb	NI	*Oenothera biennis*	Herb	FACU-
Wild Carrot			Evening-Primrose,Common		
Cornus foemina	Herb	FAC	*Hieracium gronovii*	Herb	UPL
Dogwood,Stiff			Hawkweed,Gronov's		

Percent of Dominant Species that are OBL, FACW or FAC:
(excluding FAC-) 1/3 = 33.33%

FAC Neutral: 0/2 = 0.00%
Numeric Index: 12/3 = 4.00

Remarks:
Flowers (Herb) showing stunted growth.

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:
No confirmatory hydrology data available. 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.		**County:** Seneca
Investigators: Richard S. Totino, Terry Ramborger		**State:** New York
		Plot ID: A-U-14

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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
0-0	A	N/A	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 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 FORM

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, Terry Ramborger		**State:** New York
		Plot ID: A-W-15

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-943.

VEGETATION **(USFWS Region No. 1)**

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Ulmus americana	Tree	FACW-	*Vitis riparia*	Vine	FACW
Elm,American			Grape,River-Bank		
Populus deltoides	Tree	FAC	*Fraxinus pennsylvanica*	Herb	FACW
Cotton-Wood,Eastern			Ash,Green		
Salix nigra	Tree	FACW+	*Solidago altissima*	Herb	FACU-
Willow,Black			Golden-Rod,Tall		
Cornus stolonifera	Shrub	FACW+	*Carex sp.*	Herb	NI
Dogwood,Red-Osier			Sedge, No Species Id		
Cornus foemina	Shrub	FAC	*Oxalis corniculata*	Herb	FACU
Dogwood,Stiff			Woodsorrel,Creeping		
Viburnum lentago	Shrub	FAC	*Prunella vulgaris*	Herb	FACU+
Nannyberry			Heal-All		
Cornus amomum	Shrub	FACW	*Toxicodendron radicans*	Herb	FAC
Dogwood,Silky			Ivy,Poison		
Salix nigra	Shrub	FACW+			
Willow,Black					

Percent of Dominant Species that are OBL, FACW or FAC:	**FAC Neutral:** 7/10 = 70.00%
(excluding FAC-) 11/14 = 78.57%	**Numeric Index:** 38/14 = 2.71

Remarks:
Woody scrub/shrub wet area.

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**
- NO **Water-Stained Leaves**
- NO **Local Soil Survey Data**
- YES **FAC-Neutral Test**
- NO **Other (Explain in Remarks)**

Remarks:
Drought conditions at site.

DATA FORM

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, Terry Ramborger		**State:** New York
		Plot ID: A-W-15

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 Endoaqualfs **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
0-3	A	10YR4/1	N/A	N/A	N/A	Silty clay loam
3-18+	B	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) 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-943.

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.		**County:** Seneca	
Investigators: Richard S. Totino, Terry Ramborger		**State:** New York	
		Plot ID: A-U-15	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** UPL
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		At Wetland Delineation flag A-943.

VEGETATION

(USFWS Region No. 1)

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Cornus foemina	Shrub	FAC	*Phleum pratense*	Herb	FACU
Dogwood,Stiff			Timothy		
Fraxinus pennsylvanica	Shrub	FACW	*Melilotus alba*	Herb	FACU-
Ash,Green			Sweetclover,White		
Vitis riparia	Vine	FACW	*Oxalis montana*	Herb	FAC-
Grape,River-Bank			Woodsorrel,White		
Solidago altissima	Herb	FACU-			
Golden-Rod,Tall					

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 3/7 = 42.86%

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

Remarks:
No trees, 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: 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 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.		**County:** Seneca	
Investigators: Richard S. Totino, Terry Ramborger		**State:** New York	
		Plot ID: A-U-15	

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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
0-4	A	10YR3/2	N/A	N/A	N/A	Silty clay loam
4-18+	B	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 FORM

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, Terry Ramborger		**State:** New York	
		Plot ID: A-W-16	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** WET
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		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 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			Ivy,Poison		
Ulmus rubra	Shrub	FAC	*Rhamnus alnifolia*	Herb	OBL
Elm,Slippery			Buckthorn,Alder-Leaf		

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 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**
- YES **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**
- YES **FAC-Neutral Test**
- NO **Other (Explain in Remarks)**

Remarks:
Drought conditions at site.

DATA FORM

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, Terry Ramborger		**State:** New York
		Plot ID: A-W-16

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 Endoaqualfs **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	A	10YR4/1	10YR4/3	Few	Faint	Silty clay loam
8-18+	B	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 FORM

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, Terry Ramborger		**State:** New York
		Plot ID: A-U-16

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** UPL
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		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			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					

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 4/9 = 44.44%

FAC Neutral: 3/8 = 37.50%
Numeric Index: 27/9 = 3.00

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

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 FORM

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, Terry Ramborger		**State:** New York
		Plot ID: A-U-16

SOILS

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

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

Taxonomy (Subgroup): mesic Aeric Ochraaqualfs **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
0-6	A	10YR5/2	N/A	N/A	N/A	Silty clay loam
6-18+	B	10YR6/3	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 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: Seneca Army Depot	**Project No:** S-6580	**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) No	**Community ID:** wet
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(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
Cyperus strigosus Flatsedge,Straw-Color	Herb	FACW	*Bidens cernua* Beggar-Ticks,Nodding	Herb	OBL
Eleocharis acicularis Spikerush,Least	Herb	OBL	*Alisma plantago-aquatica* Water-Plantain,Broad-Leaf	Herb	OBL
Leersia oryzoides Cutgrass,Rice	Herb	OBL	*Nuphar luteum* Cow-Lily,Yellow	Herb	OBL

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 6/6 = 100.00%

FAC Neutral: 6/6 = 100.00%
Numeric Index: 7/6 = 1.17

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: = 0 *(in.)*

Wetland Hydrology Indicators

Primary Indicators
- NO **Inundated**
- YES **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 **Water-Stained Leaves**
- YES **Local Soil Survey Data**
- YES **FAC-Neutral Test**
- NO **Other (Explain in Remarks)**

Remarks:
Drought conditions, this area would normally be inundated

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 18-Aug-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Janet Hunter; Jean Nagel		**State:** New York
		Plot ID: J-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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
22		N/A	N/A	N/A	N/A	Silt loam

Hydric Soil Indicators:

- YES **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?	(Yes) No	Is the Sampling Point within the Wetland? (Yes) No
Wetland Hydrology Present?	(Yes) No	
Hydric Soils Present?	(Yes) No	

Remarks:

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 18-Aug-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Janet Hunter; Jean Nagel		**State:** New York
		Plot ID: J-W-2

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** wet
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(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
Eleocharis acicularis Spikerush,Least	Herb	OBL	*Polygonum lapathifolium* Willow-Weed	Herb	FACW+
Leersia oryzoides Cutgrass,Rice	Herb	OBL	*Scirpus pungens* Bulrush,Three-Square	Herb	FACW+
Scirpus validus Bulrush,Soft-Stem	Herb	OBL			

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 5/5 = 100.00%	**FAC Neutral:** 5/5 = 100.00% **Numeric Index:** 7/5 = 1.40

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: = 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**
- YES **Local Soil Survey Data**
- YES **FAC-Neutral Test**
- NO **Other (Explain in Remarks)**

Remarks:
Drought conditions

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 18-Aug-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Janet Hunter; Jean Nagel		**State:** New York
		Plot ID: J-W-2

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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
4-0	O	N/A	N/A	N/A	N/A	Clay loam
0-5	A	10YR4/1	7.5YR5/8	Many	Prominent	Clay loam
5+	Bg	N5/	7.5YR5/8	Few	Prominent	Silty clay loam, trace gravel

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**
- YES **Listed on National Hydric Soils List**
- NO **Other (Explain in Remarks)**

Remarks:
some organics in B 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:

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 18-Aug-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Janet Hunter; Jean Nagel		**State:** New York
		Plot ID: J-U-1

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** Upland
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(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
Solidago altissima Golden-Rod,Tall	Herb	FACU-	*Aster ericoides* Aster,White Heath	Herb	FACU
Solidago odora Goldenrod, sweet	Herb	NI	*Cornus racemosa* Dogwood, Gray-stemmed	Herb	FAC-
Toxicodendron radicans Ivy,Poison	Herb	FAC			

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 1/4 = 25.00%	**FAC Neutral:** 0/2 = 0.00% **Numeric Index:** 14/4 = 3.50

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):
- 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 FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 18-Aug-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Janet Hunter; Jean Nagel		**State:** New York
		Plot ID: J-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 (circled) No

Profile Description

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
2-0	O	N/A	N/A	N/A	N/A	Silt loam
0-6	A	10YR3/3	N/A	N/A	N/A	Silt loam
6+	B	10YR3/3	10YR3/2 10YR6/8	Many Many	Distinct 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:

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 18-Aug-1999	
Applicant/Owner: NYS DEC		**County:** Seneca	
Investigators: Janet Hunter; Jean Nagel		**State:** New York	
		Plot ID: J-U-2	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** Upland
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(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
Solidago altissima Golden-Rod,Tall	Herb	FACU-	*Cornus racemosa* Dogwood, Gray-stemmed	Shrub	FAC-
Solidago odora Goldenrod, sweet	Herb	NI	*Fraxinus pennsylvanica* Ash,Green	Tree	FACW
Aster encoides Aster,White Heath	Herb	FACU			

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 1/4 = 25.00%	**FAC Neutral:** 1/3 = 33.33% **Numeric Index:** 13/4 = 3.25

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):
- 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 FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 18-Aug-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Janet Hunter; Jean Nagel		**State:** New York
		Plot ID: J-U-2

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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
2-0	O	N/A	N/A	N/A	N/A	Silt loam
0-10	A	10YR4/2	N/A	N/A	N/A	Silt loam
10-16	B	10YR4/2	7.5YR5/8	Few	Distinct	Silty clay loam
16+	Bg	10YR4/2	10YR7/3 10YR5/8	Common Common	Distinct 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:

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 31-Aug-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Robert Dunn		**State:** New York
		Plot ID: J-U-3

Do Normal Circumstances exist on the site?	Yes (circled) No	**Community ID:** Upland
Is the site significantly disturbed (Atypical Situation:)?	Yes No (circled)	**Transect ID:**
Is the area a potential Problem Area?	Yes No (circled)	**Field Location:**
(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
Parthenocissus quinquefolia Creeper,Virginia	Herb	FACU	*Acer saccharum* Maple,Sugar	Tree	FACU-
Acer saccharum Maple,Sugar	Shrub	FACU-	*Fraxinus americana* Ash,White	Tree	FACU
Fraxinus americana Ash,White	Shrub	FACU			

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 0/5 = 0.00%	**FAC Neutral:** 0/5 = 0.00% **Numeric Index:** 20/5 = 4.00

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):
- 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 FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 31-Aug-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Robert Dunn		**State:** New York
		Plot ID: J-U-3

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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
2-0	O	N/A	N/A	N/A	N/A	Silt loam
0-6	A	10YR4/2	N/A	N/A	N/A	Silt loam
6-18	B	10YR5/6	N/A	N/A	N/A	Silt loam, trace gravel

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:

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

Project/Site: Seneca Army Depot **Applicant/Owner:** NYS DEC **Investigators:** Robert Dunn	**Project No:** S-6580	**Date:** 31-Aug-1999 **County:** Seneca **State:** New York **Plot ID:** J-W-3

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** wet
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(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 Grass,Reed Canary	Herb	FACW+	*Fraxinus pennsylvanica* Ash,Green	Herb	FACW
Phragmites australis Reed,Common	Herb	FACW	*Fraxinus pennsylvanica* Ash,Green	Shrub	FACW

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 4/4 = 100.00%	**FAC Neutral:** 4/4 = 100.00% **Numeric Index:** 8/4 = 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** YES **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** YES **Water-Stained Leaves** NO **Local Soil Survey Data** YES **FAC-Neutral Test** NO **Other (Explain in Remarks)**

Remarks:
Drought conditions

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**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
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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
4-0	O	N/A	N/A	N/A	N/A	Silty clay
0-8	A	2.5Y5/2	N5/	Many	Prominent	Silty clay
8-16	B	N4/	2.5Y6/8	Many	Prominent	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**
- YES **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?	(Yes) No	Is the Sampling Point within the Wetland? (Yes) No
Wetland Hydrology Present?	(Yes) No	
Hydric Soils Present?	(Yes) No	

Remarks:

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 31-Aug-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Robert Dunn		**State:** New York
		Plot ID: J-W-4

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** wet
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		Near Transition flag DD-1

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

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Cyperus stngosus Flatsedge,Straw-Color	Herb	FACW	*Polygonum lapathifolium* Willow-Weed	Herb	FACW+
Scirpus pungens Bulrush,Three-Square	Herb	FACW+	*Glyceria canadensis* Grass,Canada Manna	Herb	OBL

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 4/4 = 100.00%	**FAC Neutral:** 4/4 = 100.00% **Numeric Index:** 7/4 = 1.75

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: = 4 *(in.)*

Wetland Hydrology Indicators

Primary Indicators
- NO **Inundated**
- YES **Saturated in Upper 12 Inches**
- YES **Water Marks**
- YES **Drift Lines**
- NO **Sediment Deposits**
- YES **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 FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 31-Aug-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Robert Dunn		**State:** New York
		Plot ID: J-W-4

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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
8-0	O	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 **Histic Epipedon**
- YES **Sulfidic Odor**
- YES **Aquic Moisture Regime**
- NO **Reducing Conditions**
- NO **Gleyed or Low Chroma Colors**
- YES **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? (Yes) No	Is the Sampling Point within the Wetland? (Yes) No	
Wetland Hydrology Present? (Yes) No		
Hydric Soils Present? (Yes) No		

Remarks:

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

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

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** wet
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area? (If needed, explain on the reverse side)	Yes (No)	**Field Location:** Near Transition flag FF-1

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

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Viburnum recognitum Arrow-Wood,Northern	Herb	FACW-	*Fraxinus pennsylvanica* Ash,Green	Shrub	FACW
Phalaris arundinacea Grass,Reed Canary	Herb	FACW+	*Fraxinus pennsylvanica* Ash,Green	Tree	FACW
Agrostis alba Redtop	Herb	FACW	*Ulmus americana* Elm,American	Tree	FACW-
Cornus amomum Dogwood,Silky	Shrub	FACW			

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 7/7 = 100.00%	**FAC Neutral:** 7/7 = 100.00% **Numeric Index:** 14/7 = 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**
- YES **Drift Lines**
- YES **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**
- YES **Local Soil Survey Data**
- YES **FAC-Neutral Test**
- NO **Other (Explain in Remarks)**

Remarks:
Drought conditions

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

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

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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
4-0	O	N/A	N/A	N/A	N/A	Silt loam
0-6	A	10YR3/1	N/A	N/A	N/A	Silt loam
6-18	Bg	2.5Y3/1	2.5Y6/8	Many	Prominent	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**
- YES **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:

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

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

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** Upland
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		Near Transition Flag FF-1

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 Golden-Rod,Tall	Herb	FACU-	*Elaeagnus umbellata* Autumn-olive	Shrub	NI
Solidago canadensis Golden-Rod,Canada	Herb	FACU	*Cornus racemosa* Dogwood, Gray-stemmed	Shrub	FAC-
Fragaria virginiana Strawberry,Virginia	Herb	FACU			

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 0/4 = 0.00%

FAC Neutral: 0/3 = 0.00%
Numeric Index: 15/4 = 3.75

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):
- 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 FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

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

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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
3-0	O	N/A	N/A	N/A	N/A	Silt loam
0-6	A	10YR4/3	N/A	N/A	N/A	Silt loam
6-16	B	10YR3/2	N/A	N/A	N/A	Silt 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:

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

Project/Site: Seneca Army Depot **Applicant/Owner:** NYS DEC **Investigators:** Robert Dunn	**Project No:** S-6580	**Date:** 1-Sep-1999 **County:** Seneca **State:** New York **Plot ID:** J-U-6

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** Upland
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(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
Solidago canadensis Golden-Rod,Canada	Herb	FACU	*Rhamnus cathartica* Buckthorn,Common	Shrub	UPL
Toxicodendron radicans Ivy,Poison	Herb	FAC	*Crataegus spp.* Thornapple	Tree	NI
Carya ovata Hickory,Shag-Bark	Shrub	FACU-	*Carya ovata* Hickory,Shag-Bark	Tree	FACU-
Crataegus spp. Thornapple	Shrub	NI			

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 1/5 = 20.00%	**FAC Neutral:** 0/4 = 0.00% **Numeric Index:** 20/5 = 4.00

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):
- 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 FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999
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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
2-0	O	N/A	N/A	N/A	N/A	Silt loam
0-4	A	10YR4/2	N/A	N/A	N/A	Silty clay
4-16	B	10YR5/6	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? Yes (No)
Wetland Hydrology Present?	Yes (No)	
Hydric Soils Present?	Yes (No)	

Remarks:
sunny/ 70 degrees

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999	
Applicant/Owner: NYS DEC		**County:** Seneca	
Investigators: Robert Dunn		**State:** New York	
		Plot ID: J-W-6	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** wet
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(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 Grass,Reed Canary	Herb	FACW+	*Juncus canadensis* Rush,Canada	Herb	OBL
Scirpus cyperinus Wool-Grass	Herb	FACW+	*Cornus stolonifera* Dogwood,Red-Osier	Shrub	FACW+

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 4/4 = 100.00%

FAC Neutral: 4/4 = 100.00%
Numeric Index: 7/4 = 1.75

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: = 8 *(in.)*

Wetland Hydrology Indicators

Primary Indicators
- NO **Inundated**
- YES **Saturated in Upper 12 Inches**
- NO **Water Marks**
- YES **Drift Lines**
- NO **Sediment Deposits**
- YES **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 FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Robert Dunn		**State:** New York
		Plot ID: J-W-6

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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
4-0	O	N/A	N/A	N/A	N/A	Silt loam
0-6	A	10YR4/1	10YR5/8	Many	Distinct	Silty clay
6-12	Bw	N3/	2.5Y5/6	Many	Prominent	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**
- YES **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:

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

Project/Site: Seneca Army Depot	**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	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** wet
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(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 Grass,Canada Manna	Herb	OBL	*Cyperus strigosus* Flatsedge,Straw-Color	Herb	FACW
Nuphar luteum Cow-Lily,Yellow	Herb	OBL	*Bidens bidentoides* Beggar-Ticks,Swamp	Herb	FACW
Phragmites australis Reed,Common	Herb	FACW			

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 5/5 = 100.00%

FAC Neutral: 5/5 = 100.00%
Numeric Index: 8/5 = 1.60

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: = 0.5 *(in.)*

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

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

Wetland Hydrology Indicators

Primary Indicators
- YES **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):
- NO **Oxidized Root Channels in Upper 12 Inches**
- NO **Water-Stained Leaves**
- YES **Local Soil Survey Data**
- YES **FAC-Neutral Test**
- NO **Other (Explain in Remarks)**

Remarks:
Drought conditions

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

Project/Site: Seneca Army Depot	**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

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
16+	O	N/A	N/A	N/A	N/A	Silt loam

Hydric Soil Indicators:

- YES **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?	(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

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Robert Dunn		**State:** New York
		Plot ID: J-W-8

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** wet
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		Near Transition flag II-1

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

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Phragmites australis Reed,Common	Herb	FACW	*Phalans arundinacea* Grass,Reed Canary	Herb	FACW+

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 2/2 = 100.00%

FAC Neutral: 2/2 = 100.00%
Numeric Index: 4/2 = 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**
- YES **Drift Lines**
- YES **Sediment Deposits**
- YES **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 FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Robert Dunn		**State:** New York
		Plot ID: J-W-8

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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
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**
- 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?	Yes No	Is the Sampling Point within the Wetland? Yes No
Wetland Hydrology Present?	Yes No	
Hydric Soils Present?	Yes No	

Remarks:

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Robert Dunn		**State:** New York
		Plot ID: J-U-8

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** Upland
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		Near Transition flag II-1

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 Ash,White	Herb	FACU	*Cornus racemosa* Dogwood, Gray-stemmed	Shrub	FAC-
Rubus idaeus Raspberry,Common Red	Herb	FAC-	*Crataegus spp.* Thornapple	Tree	NI
Toxicodendron radicans Ivy,Poison	Herb	FAC	*Fraxinus americana* Ash,White	Tree	FACU
Rhamnus cathartica Buckthorn,Common	Shrub	UPL	*Rhamnus cathartica* Buckthorn,Common	Tree	UPL
Fraxinus americana Ash,White	Shrub	FACU			

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 1/8 = 12.50%	**FAC Neutral:** 0/5 = 0.00% **Numeric Index:** 31/8 = 3.88

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**
YES **No Recorded Data**	NO **Water Marks**
	NO **Drift Lines**
Field Observations	NO **Sediment Deposits**
	NO **Drainage Patterns in Wetlands**
Depth of Surface Water: N/A *(in.)*	**Secondary Indicators (2 or more required):**
	NO **Oxidized Root Channels in Upper 12 Inches**
Depth to Free Water in Pit: N/A *(in.)*	NO **Water-Stained Leaves**
	NO **Local Soil Survey Data**
Depth to Saturated Soil: N/A *(in.)*	NO **FAC-Neutral Test**
	NO **Other (Explain in Remarks)**

Remarks:
Drought conditions

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999	
Applicant/Owner: NYS DEC		**County:** Seneca	
Investigators: Robert Dunn		**State:** New York	
		Plot ID: J-U-8	

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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
2-0	O	N/A	N/A	N/A	N/A	Silt loam
0-6	A	10YR6/3	N/A	N/A	N/A	Silt loam
6-14	B	10YR4/2	N/A	N/A	N/A	Silty clay loam, trace gravel

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:
sunny/80 degrees

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Janet Hunter; Jean Nagel		**State:** New York
		Plot ID: J-U-9

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** Upland
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(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 Oak,Poison	Herb	FACU	*Cornus racemosa* Dogwood, Gray-stemmed	Shrub	FAC-
Solidago altissima Golden-Rod,Tall	Herb	FACU-	*Prunus alleghaniensis* Plum,Allegheny	Tree	UPL
Cornus racemosa Dogwood, Gray-stemmed	Herb	FAC-	*Robinia pseudoacacia* Locust,Black	Tree	FACU-
Robinia pseudoacacia Locust,Black	Shrub	FACU-			

Percent of Dominant Species that are OBL, FACW or FAC: **(excluding FAC-)** 0/7 = 0.00%

FAC Neutral: 0/5 = 0.00%
Numeric Index: 27/7 = 3.86

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):
- 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 FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Janet Hunter; Jean Nagel		**State:** New York
		Plot ID: J-U-9

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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
0	O	N/A	N/A	N/A	N/A	Silt 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:
soil too dry to dig

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:

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Janet Hunter; Jean Nagel		**State:** New York
		Plot ID: J-W-9

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** wet
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(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 Grass,Fall Panic	Herb	FACW-	*Cyperus strigosus* Flatsedge,Straw-Color	Herb	FACW
Bidens cernua Beggar-Ticks,Nodding	Herb	OBL	*Scirpus pungens* Bulrush,Three-Square	Herb	FACW+

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 4/4 = 100.00%

FAC Neutral: 4/4 = 100.00%
Numeric Index: 7/4 = 1.75

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**
- NO **Water-Stained Leaves**
- YES **Local Soil Survey Data**
- YES **FAC-Neutral Test**
- NO **Other (Explain in Remarks)**

Remarks:
Drought conditions

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999
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

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
5-0	O	N/A	N/A	N/A	N/A	Silt loam
0-5	A	10YR4/1	10YR5/8	Common	Distinct	Sandy loam
5+	B	10YR4/2	7.5YR6/8 10YR4/1	Many Few	Distinct Distinct	Clay, trace gravel

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

Remarks:

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Janet Hunter; Jean Nagel		**State:** New York
		Plot ID: J-W-10

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** wet
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		Near Transition flag KK-1

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

Dominant Plant Species(Latin/Common)	Stratum	Indicator	Plant Species(Latin/Common)	Stratum	Indicator
Leersia oryzoides Cutgrass,Rice	Herb	OBL	*Cyperus strigosus* Flatsedge,Straw-Color	Herb	FACW
Bidens cernua Beggar-Ticks,Nodding	Herb	OBL			

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 3/3 = 100.00%

FAC Neutral: 3/3 = 100.00%
Numeric Index: 4/3 = 1.33

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**
- NO **Water-Stained Leaves**
- YES **Local Soil Survey Data**
- YES **FAC-Neutral Test**
- NO **Other (Explain in Remarks)**

Remarks:
Drought conditions
Oxidized root channels to surface

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**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
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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
4-0	O	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? (Yes) No		Is the Sampling Point within the Wetland? (Yes) No
Wetland Hydrology Present? (Yes) No		
Hydric Soils Present? (Yes) No		

Remarks:

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Janet Hunter; Jean Nagel		**State:** New York
		Plot ID: J-U-10

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** Upland
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		Near Transition flag KK-1

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 Creeper,Virginia	Herb	FACU	*Xanthoxylum americanum* Prickly-ash, Northern	Shrub	NI
Toxicodendron radicans Ivy,Poison	Herb	FAC	*Crataegus spp.* Thornapple	Tree	NI
Crataegus spp. Thornapple	Herb	NI	*Juglans cinerea* Butternut	Tree	FACU+

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 1/3 = 33.33%	**FAC Neutral:** 0/2 = 0.00% **Numeric Index:** 11/3 = 3.67

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**
YES **No Recorded Data**	NO **Water Marks**
	NO **Drift Lines**
Field Observations	NO **Sediment Deposits**
	NO **Drainage Patterns in Wetlands**
Depth of Surface Water: N/A *(in.)*	**Secondary Indicators (2 or more required):**
	NO **Oxidized Root Channels in Upper 12 Inches**
Depth to Free Water in Pit: N/A *(in.)*	NO **Water-Stained Leaves**
	NO **Local Soil Survey Data**
Depth to Saturated Soil: N/A *(in.)*	NO **FAC-Neutral Test**
	NO **Other (Explain in Remarks)**

Remarks:
Drought conditions

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Janet Hunter; Jean Nagel		**State:** New York
		Plot ID: J-U-10

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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
1-0	O	N/A	N/A	N/A	N/A	Silt loam
0+	A	10YR5/2	N/A	N/A	N/A	Silt 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**
- YES **Other (Explain in Remarks)**

Remarks:
Very dry, soil falls right out of the auger, powdery

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:

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Janet Hunter; Jean Nagel		**State:** New York
		Plot ID: J-W-11

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** wet
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		Near Transition flag LL-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 Grass,Reed Canary	Herb	FACW+	*Cornus amomum* Dogwood,Silky	Shrub	FACW
Typha latifolia Cattail,Broad-Leaf	Herb	OBL	*Cornus stolonifera* Dogwood,Red-Osier	Shrub	FACW+
Lythrum salicaria Loosestrife,Purple	Herb	FACW+	*Cornus racemosa* Dogwood, Gray-stemmed	Shrub	FAC-

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 5/6 = 83.33%	**FAC Neutral:** 5/5 = 100.00%
	Numeric Index: 12/6 = 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**
- NO **Water-Stained Leaves**
- YES **Local Soil Survey Data**
- YES **FAC-Neutral Test**
- NO **Other (Explain in Remarks)**

Remarks:
Drought conditions

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

Project/Site: Seneca Army Depot	**Project No:** S-6580	**Date:** 1-Sep-1999
Applicant/Owner: NYS DEC		**County:** Seneca
Investigators: Janet Hunter; Jean Nagel		**State:** New York
		Plot ID: J-W-11

SOI' 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

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
5-0	O	N/A	N/A	N/A	N/A	Silt loam
0-12	A	10YR3/2	7.5YR5/8	Many	Distinct	Silt 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**
- YES **Listed on Local Hydric Soils List**
- YES **Listed on National Hydric Soils List**
- YES **Other (Explain in Remarks)**

Remarks:
refusal at 12"-too dry

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:

DATA FORM
ROUTINE WETLAND DETERMINATION
(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

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** wet
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**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
Juncus canadensis Rush,Canada	Herb	OBL	*Eupatorium perfoliatum* Boneset,Common	Herb	FACW+
Typha latifolia Cattail,Broad-Leaf	Herb	OBL	*Apocynum sibincum* Dogbane,Prairie	Herb	FAC

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 4/4 = 100.00%	**FAC Neutral:** 3/3 = 100.00% **Numeric Index:** 7/4 = 1.75

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: = 2 *(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:
Drought conditions

DATA FORM
ROUTINE WETLAND DETERMINATION
(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

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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
1-0	O	N/A	N/A	N/A	N/A	Silt loam
0-10	A	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 Soil Indicators:

- NO **Histosol**
- NO **Histic Epipedon**
- NO **Sulfidic Odor**
- NO **Aquic Moisture Regime**
- NO **Reducing Conditions**
- NO **Gleyed or Low Chroma Colors**
- YES **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?	(Yes) No	Is the Sampling Point within the Wetland? (Yes) No
Wetland Hydrology Present?	(Yes) No	
Hydric Soils Present?	(Yes) No	

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
(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-U-1	

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** Upland
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**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
Parthenocissus quinquefolia	Herb	FACU	*Juglans nigra*	Tree	FACU
Creeper,Virginia			Walnut,Black		
Toxicodendron radicans	Herb	FAC	*Tilia americana*	Tree	FACU
Ivy,Poison			Basswood,American		
Acer saccharum	Tree	FACU-			
Maple,Sugar					

Percent of Dominant Species that are OBL, FACW or FAC:	**FAC Neutral:** 0/4 = 0.00%
(excluding FAC-) 1/5 = 20.00%	**Numeric Index:** 19/5 = 3.80

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**
YES **No Recorded Data**	NO **Water Marks**
	NO **Drift Lines**
Field Observations	NO **Sediment Deposits**
	NO **Drainage Patterns in Wetlands**
Depth of Surface Water: N/A *(in.)*	**Secondary Indicators (2 or more required):**
	NO **Oxidized Root Channels in Upper 12 Inches**
Depth to Free Water in Pit: N/A *(in.)*	NO **Water-Stained Leaves**
	NO **Local Soil Survey Data**
Depth to Saturated Soil: N/A *(in.)*	NO **FAC-Neutral Test**
	NO **Other (Explain in Remarks)**

Remarks:
Drought conditions

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wet· ·ds 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-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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
4-0	O	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+	B	10YR5/6	N/A	N/A	N/A	Loam, trace 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:

DATA FORM
ROUTINE WETLAND DETERMINATION
(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

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** wet
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(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
Carex vulpinoidea Sedge,Fox	Herb	OBL	*Agrostis alba* Redtop	Herb	FACW
Scirpus atrovirens Bulrush,Green	Herb	OBL	*Lysimachia nummularia* Jennie,Creeping	Herb	OBL
Juncus effusus Rush,Soft	Herb	FACW+			

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 5/5 = 100.00%	**FAC Neutral:** 5/5 = 100.00% **Numeric Index:** 7/5 = 1.40

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: = 6 *(in.)*

Wetland Hydrology Indicators

Primary Indicators
- NO **Inundated**
- YES **Saturated in Upper 12 Inches**
- NO **Water Marks**
- NO **Drift Lines**
- YES **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**
- NO **Other (Explain in Remarks)**

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
(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 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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
2-0	O	N/A	N/A	N/A	N/A	Silt loam
0-8	A	10YR3/1	N/A	N/A	N/A	Clay loam, trace silt
8-14	B	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 Soil Indicators:

- NO **Histosol**
- NO **Histic Epipedon**
- NO **Sulfidic Odor**
- NO **Aquic Moisture Regime**
- NO **Reducing Conditions**
- NO **Gleyed or Low Chroma Colors**
- YES **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? (Yes) No	Is the Sampling Point within the Wetland? (Yes) No	
Wetland Hydrology Present? (Yes) No		
Hydric Soils Present? (Yes) No		

Remarks:
Sunny, muggy, 88 degrees

DATA FORM
ROUTINE WETLAND DETERMINATION
(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

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** Upland
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(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	NI
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: (excluding FAC-) 0/3 = 0.00%	**FAC Neutral:** 0/3 = 0.00% **Numeric Index:** 12/3 = 4.00

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):
- 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:

DATA FORM
ROUTINE WETLAND DETERMINATION
(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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
2-0	O	N/A	N/A	N/A	N/A	Silt loam
0-14	A	10YR4/3	N/A	N/A	N/A	Clay loam, trace silt

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:
refusal @ 14"
soil powder dry

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:

DATA FORM
ROUTINE WETLAND DETERMINATION
(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-W-1

Do Normal Circumstances exist on the site?	(Yes) No	**Community ID:** wet
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		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	Indicator
Phalaris arundinacea Grass,Reed Canary	Herb	FACW+	*Rosa multiflora* Rose,Multiflora	Shrub	FACU
Equisetum palustre Horsetail,Marsh	Herb	FACW	*Rhamnus cathartica* Buckthorn,Common	Shrub	UPL
Carex crinita Sedge,Fringed	Herb	OBL	*Fraxinus pennsylvanica* Ash,Green	Shrub	FACW
Carex x stipata Sedge,Stalk-Grain	Herb	OBL	*Acer saccharinum* Maple,Silver	Tree	FACW
Glyceria striata Grass,Fowl Manna	Herb	OBL	*Fraxinus pennsylvanica* Ash,Green	Tree	FACW

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 8/10 = 80.00%	**FAC Neutral:** 8/10 = 80.00% **Numeric Index:** 22/10 = 2.20

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: = 0 *(in.)*

Wetland Hydrology Indicators

Primary Indicators
- NO **Inundated**
- YES **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:
standing water in adjacent stream

DATA FORM
ROUTINE WETLAND DETERMINATION
(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-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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
4-0	O	N/A	N/A	N/A	N/A	Silt loam
0-12	A	2.5Y3/1	2.5Y5/1 7.5YR6/8	Few Many	Distinct Distinct	Silty clay
12+	Bg	10YR3/2	10YR4/1	Many	Prominent	Silty clay, trace sand

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

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
(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?	(Yes) No	**Community ID:** Upland
Is the site significantly disturbed (Atypical Situation:)?	Yes (No)	**Transect ID:**
Is the area a potential Problem Area?	Yes (No)	**Field Location:**
(If needed, explain on the reverse side)		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	Indicator
Parthenocissus quinquefolia Creeper,Virginia	Herb	FACU	*Xanthoxylum americanum* Prickly-ash, Northern	Shrub	NI
Toxicodendron quercifolia Oak,Poison	Herb	FACU	*Rosa multiflora* Rose,Multiflora	Shrub	FACU
Rhamnus cathartica Buckthorn,Common	Shrub	UPL	*Acer saccharinum* Maple,Silver	Tree	FACW

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) 1/5 = 20.00%	**FAC Neutral:** 1/5 = 20.00% **Numeric Index:** 19/5 = 3.80

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):
- 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:

DATA FORM
ROUTINE WETLAND DETERMINATION
(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

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 (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast		Texture, Concretions, Structure, etc
2-0	O	N/A	N/A	N/A	N/A	Silt loam
0-16	A	10YR3/3	N/A	N/A	N/A	Clay loam, trace silt
16+	B	10YR4/4	N/A	N/A	N/A	Clay loam, trace silt

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:
depth pit 20 "

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:

EARTH TECH℠

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