

Wetland Delineation Report

for

**5220 Camp Road**

**Town of Hamburg  
Erie County, New York**

for

Benderson Development Company



**EARTH DIMENSIONS, INC.**

*Soil and Hydrogeologic Investigations • Wetland Delineations*

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November 15, 2006

EDI Project Code: W11C06a

**REPORT SUMMARIZING  
THE RESULTS OF  
A WETLAND DELINEATION SURVEY OF**

**5220 CAMP ROAD**

**Prepared for Submission to**

**U.S. ARMY CORPS OF ENGINEERS  
1776 NIAGARA STREET  
BUFFALO, NEW YORK 14207**

**Prepared by**

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**for**

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**DATE PREPARED  
November 15, 2006**

**Project Code: W11C06a**



**ACKNOWLEDGMENTS**

Benderson Development Company has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation study at a proposed development site in the Town of Hamburg, Erie County, State of New York. EDI would like to thank TVGA Consultants for their assistance with this project. TVGA Consultants provided the drafting services required to prepare the baseline map included in this report. EDI would also like to thank Copy Market, Inc. for providing the duplicating and binding services.

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## EXECUTIVE SUMMARY

Benderson Development Company has proposed the development of an 80± acre site located in a commercial area in the Town of Hamburg, County of Erie, State of New York. Benderson Development Company has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation report that would allow the U.S. Army Corps of Engineers (Corps) and New York State Department of Environmental Conservation (NYSDEC) to determine their jurisdictional authority over the investigation area, pursuant to Section 404 of the Clean Water Act and Article 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law.

A preliminary review of available information pertaining to vegetation, soils, and hydrology in the project area was implemented prior to conducting a field investigation at the site. Sources of information included the United States Geological Survey (USGS), Soil Conservation Service (SCS), National Wetland Inventory (NWI), and NYSDEC Freshwater Wetland maps. The site does not lie within a wetland under New York State jurisdiction. However, the SCS map indicates the possible presence of wetlands under Federal jurisdiction at the project site.

EDI identified five (5) wetland areas totaling 7.22± acres (on-site) at the 5220 Camp Road site. The identification numbers of the individual wetlands, their acreages and boundary flags are as follows:

Wetland Identification #	Boundary Flags	Total Acreage On-Site	Wetland Type
Wetland 1	W1-1 through W1-43	2.14± acres	Hardwood Swamp
Wetland 2	W2-1 through W2-102	1.58± acres	Hemlock Hardwood Swamp/ Floodplain Forest
Wetland 3	W3-1 through W3-51	3.24± acres	Maple Hardwood Swamp/Shrub Swamp
Wetland 4	W4-1 through W4-16	0.23± acres	Maple Hardwood Swamp
Wetland 5	W5-1 through W5-4	0.03± acres	Maple Hardwood Swamp

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## SECTION I INTRODUCTION

Benderson Development Company has proposed development of a 80± acre parcel located in the Town of Hamburg, County of Erie, State of New York. The site lies southwest of Camp Road and northwest of I-90. The project has been given the name 5220 Camp Road and is located on the USGS 7.5 minute quadrangle map indexed as Hamburg Quadrangle (Figure 1).

Benderson Development Company has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation study at the site. The investigation was designed to facilitate a determination of the extent of U.S. Army Corps of Engineers (Corps) and New York State Department of Environmental Conservation (NYSDEC) jurisdiction over the project area pursuant to Section 404 of the Clean Water Act and Article 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law.

EDI has performed a wetland delineation study at the site under guidelines specified by the *Corps of Engineers Wetlands Delineation Manual*, dated January 1987 (referred to hereafter as the Corps Manual). The purpose of this report is to present EDI's methods, results, conclusions and recommendations with respect to the 5220 Camp Road site.

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## SECTION II

### SITE DESCRIPTION

The 5220 Camp Road project area is irregular in shape. The site is bound by I-90 to the southeast. The dimensions are depicted on the site map included as Figure 7 in Attachment A. The project site has a total acreage of 80± acres and is outlined on Figures 1 through 4, included in Attachment A of this report. The northern portion of the project site was previously developed. Existing development includes a vacant Days Inn hotel with attached bowling center, a vacant truck stop and fueling facility and an occupied bus garage and repair facility.

The natural topography of the 5220 Camp Road site is a gently sloping landscape. The vegetative community of the investigation area is described according to *Ecological Communities of New York State* (Edinger et al. 2002). The wetland areas of the site are comprised of hemlock hardwood swamp, floodplain forest, hardwood swamp, maple hardwood swamp and shrub swamp vegetative communities. The upland portions of the site consist of successional northern hardwood, hemlock northern hardwood forest, beech-maple mesic forest, maple-basswood rich mesic forest, rich mesophytic forest and successional shrubland vegetative communities (Figure 6).

**SECTION III**  
**PRELIMINARY DATA REVIEW**

**A. SUMMARY OF FINDINGS**

Several sources of information may be reviewed to facilitate the completion of a wetland delineation study. In some cases it is even possible to make a preliminary office wetland determination based upon available vegetation, soils, and hydrologic information for a project site.

EDI completed a preliminary review of several data sources at the onset of this study. The results of the review are summarized as follows:

1. USGS Quadrangle Map

Figure 1 depicts the 5220 Camp Road site on the Hamburg Quadrangle 7.5 minute topographical map. The map depicts a gently sloping landscape.

2. USFWS National Wetlands Inventory Map

The USFWS National Wetlands Inventory (NWI) map indexed as Hamburg, 1978 depicts one wetland area, labeled PFO1A, in the southwestern portion of the project site. The NWI code is described as follows:

**[P] Palustrine**

**[1] Broad-leaved deciduous**

**[FO] Forested**

**[A] Temporarily flooded**

3. SCS Erie County Soil Survey Map

Figure 3 presents the project area outlined on a copy of the Erie County Soil Survey map (Sheet Number 66). As shown on that figure, the site has the following soil types:

### Soil Conservation Service Legend

<u>Designation</u>	<u>Description</u>	<u>Hydric Soil/ Inclusions?</u>
AoA	Angola silt loam 0-3% slopes	Inclusions possible
AoB	Angola silt loam 3-8% slopes	Inclusions possible
Fu	Fluvaquents and Udifluvents Frequently flooded	Inclusions likely
OrA	Orpark silty clay loam 0-3% slopes	Inclusions possible
Pc	Patchin silt loam	Hydric soil

Angola- Somewhat poorly drained, deep, nearly level to gently sloping soil; formed in glacial till deposits; map indicates Angola soil in the northeastern and eastern portion of the project site.

Fluvaquents/Udifluvents- Well drained to somewhat poorly drained, deep, nearly level to gently sloping soil; formed in recent alluvial deposits; map indicates Fluvaquents in the along a small tributary in the southwestern portion of the project site.

Orpark- Somewhat poorly drained, moderately deep, nearly level to sloping soil; formed in a thin mantle of glacial till underlain by weathered soft shale bedrock; map indicates Orpark soil in the throughout the majority of the project site.

Patchin- Poorly and very poorly drained, deep, nearly level (hydric soil); formed in glacial till deposits underlain with shale bedrock; map indicates Patchin soil in the central to western portion of the project site.

The U.S. Department of Agriculture's National Technical Committee for Hydric Soils Criteria has developed a list of soils that often display hydric soil characteristics. Areas mapped as hydric soil have a high probability of being

jurisdictional wetland. Patchin silt loam and Fluvaquents are on the hydric soils list.

Although Angola and Orpark soils are not on the USDA hydric soil list, they have the potential to contain hydric soil inclusions.

4. NYSDEC Freshwater Wetlands Map

Figure 4 is a copy of the NYSDEC Freshwater Wetlands (FWW) maps indexed as Hamburg Quadrangle, 1986. No state regulated wetlands are depicted within or adjacent to the project site. Consequently, the NYSDEC has no apparent jurisdiction over any wetlands at the proposed project site.

## B. RESULTS OF AGENCY INFORMATION REVIEW

The preliminary data review found no wetlands subject to NYSDEC jurisdiction at the 5220 Camp Road site, but evidence was gathered that suggested the Corps might have jurisdiction over potential wetlands at the project location. The evidence consisted of the depiction of a wetland on the NWI Map as well as depiction of hydric soils and soils with possible hydric inclusions on the SCS Soil Survey Map. It was considered necessary to perform a field investigation at the site in order to confirm the presence of Federally protected wetlands. The methods specified in the *Corps of Engineers Wetlands Delineation Manual* (January 1987) were employed during the field investigation. Procedures, results, and conclusions of the wetland delineation study are presented in the remainder of this report.

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**SECTION IV**  
**FIELD INVESTIGATION PROCEDURES**

Step 1

EDI applied methodology specified by the Corps of Engineers Wetlands Delineation Manual (January 1987) to perform a delineation of Federal jurisdictional wetlands within the site. EDI used the Level 2 Routine Determination method (on-site inspection necessary) since insufficient information was already available for making a determination for the entire project area. This methodology is consistent with Part IV, Section D of the Corps Manual.

Step 2

EDI's initial evaluation of the project site revealed that no atypical situations existed. If an atypical situation had existed, EDI would have used methodology outlined in Part IV, Section F of the Corps manual.

Step 3

EDI made the determination that normal environmental conditions were present, as the area was not lacking hydrophytic vegetation or hydrologic indicators due to annual, seasonal or long-term fluctuations in precipitation, surface water, or groundwater levels. Field work was performed on August 21<sup>st</sup>, 22<sup>nd</sup> and 23<sup>rd</sup>, 2006, which is during the U.S. Department of Agriculture Natural Resources Conservation Service (NRCS) documented growing season (April 15<sup>th</sup> through October 15<sup>th</sup>).

Step 4

In order to accurately identify the limits of various vegetative communities and extent of wetlands on-site, transects were taken at approximately 200-foot intervals across the site. A baseline was established along the northern property boundary. As outlined in the Corps Manual,

the baseline should be perpendicular to the hydrologic gradient of the site. Data points were taken within each vegetative community type along each transect. As depicted in Attachment A and included in Attachment B, 62 data points were used to characterize the site.

### Step 5

The plant community inhabiting each observation point was characterized by EDI's Wetland Ecologist in accordance with methods specified in the Corps Manual. Dominant plant species were identified within four vegetative strata (i.e. herb, sapling/shrub, tree and liana (woody vines) at each sampling point. The Corps Manual defines the vegetative strata in the following manner:

Herb – A non-woody individual of a macrophytic species. Seedlings of woody plants (including vines) that are less than 3.2 feet in height are considered to be herbs.

Sapling/Shrub – A layer of vegetation composed of woody plants < 3.0 inches in diameter at breast height but greater than 3.2 feet in height, exclusive of woody vines.

Tree – A woody plant > 3.0 inches in diameter at breast height, regardless of height (exclusive of woody vines)

Liana – A layer of vegetation in forested plant communities that consists of woody vines.

As outlined in the manual, the quadrat sizes used for the vegetative strata were (i) a 3.28-foot radius for herbs; (ii) a ten-foot radius for saplings/shrubs and woody vines; and (iii) a 30-foot radius for trees. Dominant plant species were estimated using aerial coverage methods. Dominant species are defined in the Corps Manual as the most abundant plant species that when ranked in descending order of abundance and cumulatively totaled immediately exceed 50 percent of the total dominance measure for the stratum, plus any additional species comprising 20 percent or more of the total dominance measure.

The wetland indicator status (OBL, FACW, FAC, FACU, or UPL) listed for each identified species by the U.S. Fish and Wildlife Service in the *National List of Plant Species that Occur in*

*Wetlands: Northeast (Region 1)* was recorded. The U.S. Fish and Wildlife wetland indicator status listings are defined as follows:

OBL – Plants that occur almost always (estimated probability >99 percent) in wetlands under natural conditions, but which may also occur rarely (estimated probability < 1 percent) in nonwetlands.

FACW – Plants that occur usually (estimated probability >67 percent to 99 percent) in wetlands, but also occur (estimated probability 1 percent to 33 percent) in nonwetlands.

FAC – Plants with a similar likelihood (estimated probability 33 percent to 67 percent) of occurring in both wetlands and nonwetlands.

FACU – Plants that occur sometimes (estimated probability 1 percent to <33 percent) in wetlands, but occur more often (estimated probability >67 percent to 99 percent) in nonwetlands.

UPL – Plants that occur rarely (estimated probability < 1 percent) in wetlands, but occur almost always (estimated probability >99 percent) in nonwetlands under natural conditions.

The plant community data were summarized on the Data forms provided in the Corps Manual and are included in this report as Attachment B.

#### Step 6

Plant data from each observation point were tested against the hydrophytic vegetation criterion specified in the Corps Manual. If more than 50 percent of the dominant species present at the sample plot had an indicator status of OBL, FACW, and/or FAC, the hydrophytic vegetation criterion was considered to be met. All observation points that met the hydrophytic vegetation criterion were considered potential wetlands and soils were also characterized.

#### Step 7

The Corps Manual specifies that soils need not be characterized (and are assumed hydric soils) at sampling points meeting the hydrophytic vegetation criterion if: (i) all dominant plant species have an indicator status of OBL, or (ii) all dominant species have an indicator status of OBL and/or

FACW, and the wetland boundary is abrupt (at least one dominant OBL species must be present).

All observation points sampled during this field investigation were examined directly for soil and hydrologic characteristics.

#### Step 8

Soil borings were performed by EDI's Soil Scientist using methods specified in the Corps Manual at each observation point. Soil borings were dug using a stainless steel hand auger. The borings were examined for indicators of hydric soils immediately below the A-horizon or 10 inches (whichever was shallower). A determination was made as to whether or not the hydric soil criterion was met. Soils data was recorded on the data forms included in Attachment B of this report.

#### Step 9

EDI's Soil Scientist examined hydrologic indicators using methods specified by the Corps Manual at each observation point. The wetland hydrology criterion was met if: (i) one or more primary field indicators was materially present, (ii) available hydrologic records provided necessary evidence, or (iii) two or more secondary indicators were present. Results were recorded on data forms taken from the Corps Manual and are included in this report as Attachment B.

#### Step 10

A wetland determination was made for every observation point. If a sample plot met the hydrophytic vegetation, hydric soil, and wetland hydrology criteria, the area was considered to be wetland.

#### Step 11

Based on the results of the transected data, wetland boundaries were established for each identified wetland using survey ribbon labeled "wetland delineation" and numbered consecutively

along each wetland boundary. As outlined in the Corps Manual, the placement of flags was based on the limits of areas where all three parameters were met. Wetland flags were labeled W1-1 through W1-43, W2-1 through W2-102, W3-1 through W3-51, W4-1 through W4-16 and W5-1 through W5-4.

## SECTION V

### RESULTS AND CONCLUSIONS

Earth Dimensions, Inc. (EDI) has completed a wetland delineation study at the 5220 Camp Road project site located in the Town of Hamburg, County of Erie, State of New York. A preliminary data review revealed that the NYSDEC has no apparent jurisdiction over the proposed development under Article 24 of the New York State Environmental Conservation Law. Information gathered from the SCS map indicates that wetlands might exist at the site that would be subject to jurisdiction by the U.S. Army Corps of Engineers.

A field investigation was conducted by a Soil Scientist and an Ecologist from EDI. The wetland delineation study found 7.22± acres of wetland present at the site. All wetland acreage was calculated by the coordinate geometry method by the surveyor subcontracted to work with EDI, TVGA Consultants.

General site maps are presented in Attachment A, Figures 5 and 6 that show the soil types and major plant communities found on the property.

Field examination of the soil on the site showed close agreement to the published SCS soil map (Figure 3). Orpark silty clay loam, Blasdell shaly silt loam, Angola silt loam and soil fill were identified in the upland portions of the site. Patchin silt loam and Wayland (fluvaquents) were delineated within the wetlands.

Figure 6 depicts the vegetative communities as they currently exist. The upland community characterized as successional northern hardwood is dominated by red maple (*Acer rubrum*), sugar maple (*Acer saccharum*), agrimony (*Agrimonia* sp.), shagbark hickory (*Carya ovata*), spotted knapweed (*Centaurea maculosa*), enchanter's nightshade (*Circaea quadrisulcata*), gray-stem

dogwood (*Cornus foemina* ssp. *racemosa*), hawthorn (*Crataegus* sp.), American beech (*Fagus grandifolia*), Virginia strawberry (*Fragaria virginiana*), white ash (*Fraxinus americana*), green ash (*Fraxinus pennsylvanica*), avens (*Geum* spp.), Tartarian honeysuckle (*Lonicera tatarica*), common apple (*Malus officinalis*), white spruce (*Picea abies*), red spruce (*Picea rubens*), scots pine (*Pinus sylvestris*), eastern cottonwood (*Populus deltoides*), dwarf cinquefoil (*Potentilla canadensis*), black cherry (*Prunus serotina*), bur oak (*Quercus macrocarpa*), European buckthorn (*Rhamnus cathartica*), multiflora rose (*Rosa multiflora*), common red raspberry (*Rubus idaeus*), weeping willow (*Salix babylonica*), black willow (*Salix nigra*), rough stem goldenrod (*Solidago rugosa*), showy goldenrod (*Solidago speciosa*), American basswood (*Tilia americana*), Virginia knotweed (*Tovara virginiana*), poison ivy (*Toxicodendron radicans*), eastern hemlock (*Tsuga canadensis*), American elm (*Ulmus americana*) and summer grape (*Vitis aestivalis*).

The upland community described as hemlock northern hardwood forest is dominated by red maple (*Acer rubrum*), sugar maple (*Acer saccharum*), yellow birch (*Betula alleghaniensis*), ironwood (*Carpinus caroliniana*), shagbark hickory (*Carya ovata*), gray-stem dogwood (*Cornus foemina* ssp. *racemosa*), toothed wood fern (*Dryopteris acrostichoides*), American beech (*Fagus grandifolia*), northern spicebush (*Lindera benzoin*), Canada mayflower (*Maianthemum canadense*), pinesap (*Monotropa hypopithys*), American hop-hornbeam (*Ostrya virginiana*), woodsorrel (*Oxalis montana*), Virginia creeper (*Parthenocissus quinquefolia*), red oak (*Quercus rubra*), European buckthorn (*Rhamnus cathartica*), American basswood (*Tilia americana*) and eastern hemlock (*Tsuga canadensis*).

The community described as beech-maple mesic forest is dominated by the following species: red maple (*Acer rubrum*), sugar maple (*Acer saccharum*), Jack-in-the-pulpit (*Arisaema* sp.), common barberry (*Berberis vulgaris*), yellow birch (*Betula alleghaniensis*), sedge (*Carex* sp.), ironwood (*Carpinus caroliniana*), bitternut hickory (*Carya cordiformis*), shagbark hickory (*Carya ovata*), enchanter's nightshade (*Circaea quadrisulcata*), beech drops (*Epifagus virginiana*),

American beech (*Fagus grandifolia*), white ash (*Fraxinus americana*), green ash (*Fraxinus pennsylvanica*), witchhazel (*Hamamelis virginiana*), northern spicebush (*Lindera benzoin*), Canada mayflower (*Maianthemum canadense*), Indian pipe (*Monotropa uniflora*), American hop-hornbeam (*Ostrya virginiana*), Virginia creeper (*Parthenocissus quinquefolia*), mayapple (*Podophyllum peltatum*), black cherry (*Prunus serotina*), red oak (*Quercus rubra*), European buckthorn (*Rhamnus cathartica*), false Solomon's seal (*Smilacina racemosa*), American basswood (*Tilia americana*), eastern hemlock (*Tsuga canadensis*) and summer grape (*Vitis aestivalis*).

The community described as rich mesophytic forest is dominated by red maple (*Acer rubrum*), sugar maple (*Acer saccharum*), hog peanut (*Amphicarpa bracteata*), sedge (*Carex* sp.), shagbark hickory (*Carya ovata*), lateflowering thoroughwort (*Eupatorium serotinum*), white ash (*Fraxinus americana*), green ash (*Fraxinus pennsylvanica*), spotted touch-me-not (*Impatiens capensis*), northern spicebush (*Lindera benzoin*), Tartarian honeysuckle (*Lonicera tatarica*), American hop-hornbeam (*Ostrya virginiana*), black cherry (*Prunus serotina*), showy goldenrod (*Solidago speciosa*), tall meadowrue (*Thalictrum pubescens*), American basswood (*Tilia americana*) and poison ivy (*Toxicodendron radicans*).

The maple-basswood rich mesic forest is dominated by the following species: red maple (*Acer rubrum*), sugar maple (*Acer saccharum*), white baneberry (*Actaea pachypoda*), roundleaf serviceberry (*Amelanchier sanguinea*), plantainleaf sedge (*Carex plantaginea*), bitternut hickory (*Carya cordiformis*), shagbark hickory (*Carya ovata*), toothed wood fern (*Dryopteris acrostichoides*), intermediate woodfern (*Dryopteris intermedia*), American beech (*Fagus grandifolia*), white ash (*Fraxinus americana*), wild geranium (*Geranium* sp), northern spicebush (*Lindera benzoin*), American hop-hornbeam (*Ostrya virginiana*), mayapple (*Podophyllum peltatum*), black cherry (*Prunus serotina*), red oak (*Quercus rubra*), early meadowrue (*Thalictrum*

*dioicum*), American basswood (*Tilia americana*), poison ivy (*Toxicodendron radicans*) and eastern hemlock (*Tsuga canadensis*).

The community described as successional shrubland is dominated by gray-stem dogwood (*Cornus foemina* ssp. *racemosa*), European buckthorn (*Rhamnus cathartica*), poison ivy (*Toxicodendron radicans*), and northern arrowwood (*Viburnum recognitum*).

The wetland community encountered on-site described as hemlock hardwood swamp vegetative community is dominated by the following species: spinulose woodfern (*Dryopteris spinulosa*), American beech (*Fagus grandifolia*), northern spicebush (*Lindera benzoin*), and eastern hemlock (*Tsuga canadensis*).

The wetland community described as floodplain forest is dominated by red maple (*Acer rubrum*), aster (*Aster* sp.), green ash (*Fraxinus pennsylvanica*), spotted touch-me-not (*Impatiens capensis*), northern spicebush (*Lindera benzoin*), false nettle (*Boehmeria cylindrica*), American basswood (*Tilia americana*), poison ivy (*Toxicodendron radicans*), American elm (*Ulmus americana*), northern arrowwood (*Viburnum recognitum*).

The hardwood swamp vegetative community encountered on site is dominated by the following species: red maple (*Acer rubrum*), hyssop (*Agastache* sp.), green ash (*Fraxinus pennsylvanica*), large leaf avens (*Geum macrophyllum*), fowl manna grass (*Glyceria striata*), European buckthorn (*Rhamnus cathartica*) and American elm (*Ulmus americana*).

The community characterized as maple hardwood swamp is dominated by red maple (*Acer rubrum*), silver maple (*Acer saccharinum*), sedge (*Carex* sp.), ironwood (*Carpinus caroliniana*), green ash (*Fraxinus pennsylvanica*), spotted touch-me-not (*Impatiens capensis*), northern

spicebush (*Lindera benzoin*), poison ivy (*Toxicodendron radicans*) and American elm (*Ulmus americana*).

The wetland community described as shrub swamp is dominated by the following species: silky dogwood (*Cornus amomum*), gray-stem dogwood (*Cornus foemina* ssp. *racemosa*), common boneset (*Eupatorium perfoliatum*), white ash (*Fraxinus americana*), spotted touch-me-not (*Impatiens capensis*), purple loosestrife (*Lythrum salicaria*), sensitive fern (*Onoclea sensibilis*), eastern cottonwood (*Populus deltoides*), European buckthorn (*Rhamnus cathartica*), American elm (*Ulmus americana*) and blue vervain (*Verbena hastata*).

Drainage on-site is generally to the northwest. Wetland area W-3 appears to be the result of land disturbances and alterations on the northern portion of the project site.

A map which depicts the surveyed wetland boundary points, the site boundaries, the photographic exhibit locations and the location of all observation points established during the field survey is included as Figure 7 in Attachment A of this report. Data forms are included as Attachment B. Attachment C consists of an aerial photograph of the site. Attachment D includes representative photographs of the project site. Attachment E notes the references used during the preparation of this report and during the field investigation. Attachment F provides the names, addresses and phone numbers of the survey personnel involved in the wetland delineation study.

## SECTION VI RECOMMENDATIONS

Five (5) wetland areas totaling 7.22± acres (on-site) were identified during the course of a field investigation based upon the three parameter technique (vegetation, soils, and hydrology) outlined in the Corps Manual. It is EDI's professional opinion that wetland areas 4 and 5 and possibly 3, as depicted on Figure 7 of this report, are isolated and do not appear to meet the current interpretation of Federally jurisdictional wetlands. Wetland areas 1 and 2 are part of the tributary drainage system to Lake Eric and would likely be considered under the jurisdiction of the U.S. Army Corps of Engineers.

The Corps and New York State Department of Environmental Conservation approach their regulatory analyses by first considering avoidance of wetlands and minimization of wetland losses. EDI recommends the following:

- (1) If no impacts to potential federally regulated wetlands, it is the professional opinion of EDI that the project may proceed without the need for an Article 24 or Section 404 permit.
- (2) If wetland impacts are proposed to less than 0.10 acre of potential Federally jurisdictional wetland area, it is EDI's recommendation that the project may proceed under the current Nationwide 39 permit (valid until March 17, 2007) without the need for pre-notification to the U.S. Army Corps of Engineers. We strongly suggest the applicant thoroughly review the conditions of this permit. The permit language and other pertinent information can be found at [http://www.usace.army.mil/inet/functions/cw/cecwo/reg/nationwide\\_permits.htm](http://www.usace.army.mil/inet/functions/cw/cecwo/reg/nationwide_permits.htm).
- (3) If wetland impacts are proposed to greater than 0.10 acre of potentially Federally jurisdictional wetland area (including wetland areas EDI feels are isolated and non-jurisdictional), we recommend that this report, along with a Joint Application for Permit and required supporting documentation be submitted to the U.S. Army Corps of

Engineers and New York State Department of Environmental Conservation for their jurisdictional determination and/or required permits.

# 5220 Camp Road



## ATTACHMENT A

*Figures*



Figure 1: USGS 7.5 Minute Topographical Map  
 Hamburg Quadrangle, DeLorme 2002

5220 Camp Road  
 Town of Hamburg, Erie County, New York

Scale: 1" = 2000'



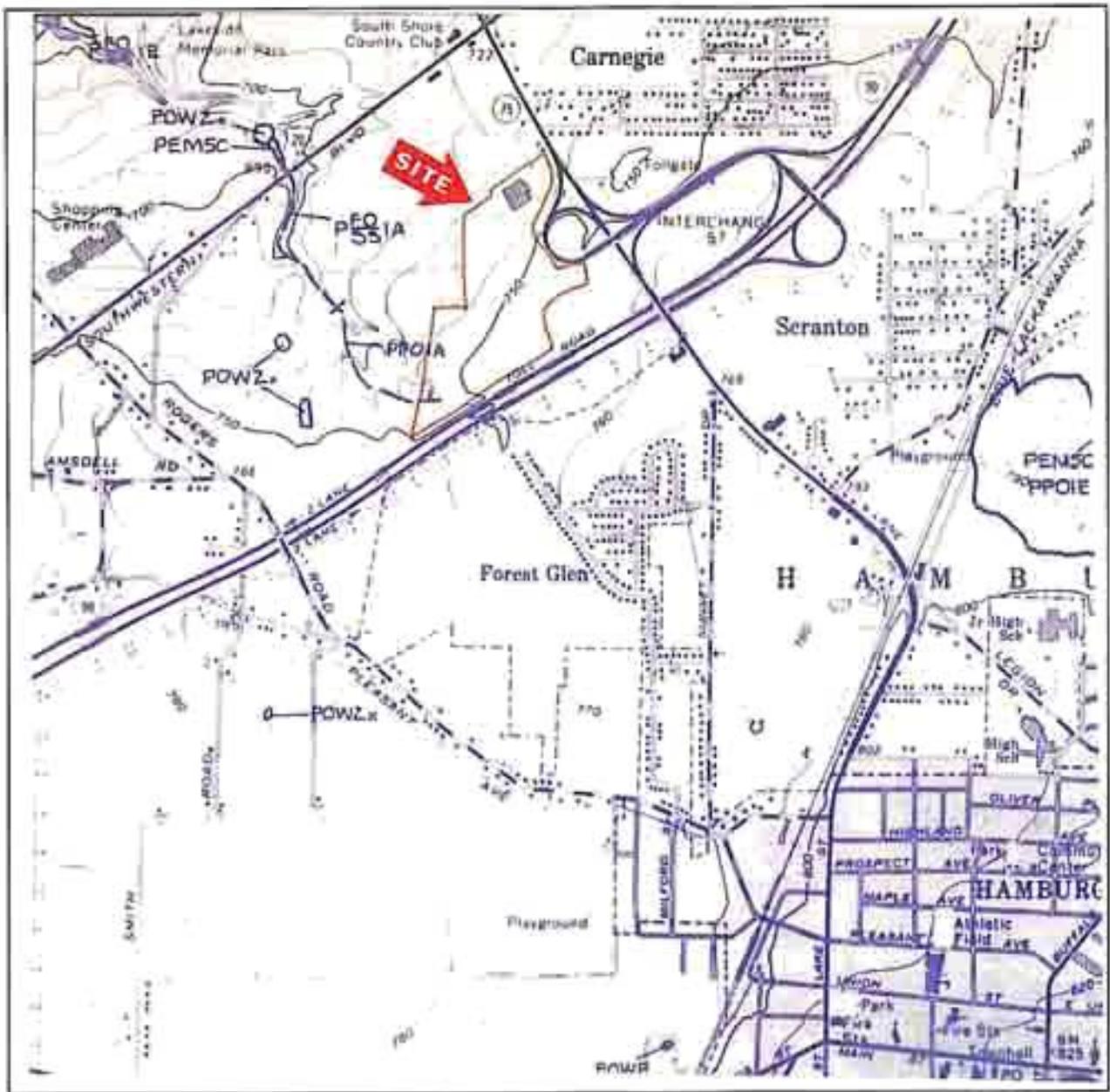


Figure 2: National Wetlands Inventory Map  
 Hamburg Quadrangle, 1978

5220 Camp Road  
 Town of Hamburg, Erie County, New York

Scale: 1" = 2000'



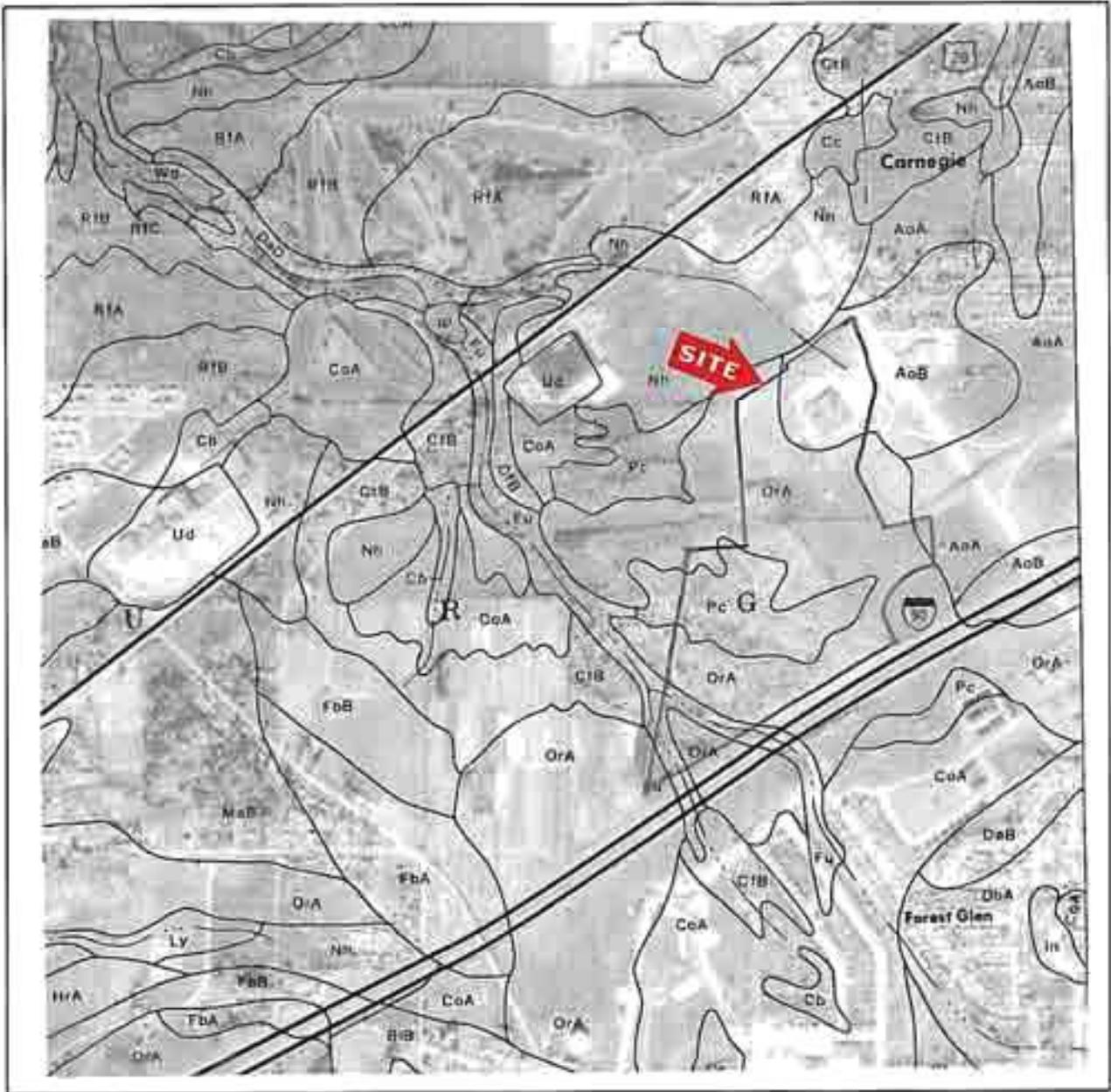


Figure 3: SCS Erie County Soil Survey Map  
 Sheet Number 66

5220 Camp Road  
 Town of Hamburg, Erie County, New York

Scale: 1" = 1320'





Figure 4: NYSDEC Freshwater Wetlands Map  
 Hamburg Quadrangle, 1986

5220 Camp Road  
 Town of Hamburg, Erie County, New York

Scale: 1" = 2000'



Figure 5: General Soils Map

3220 Camp Road

Town of Hamburg

Eric County, New York



Soil and Hydrogeologic Investigations  
Wellhead Delineations

1091 Junction Road • Ellettsville, NY 14857  
814-655-1717 • Fax 814-655-2913

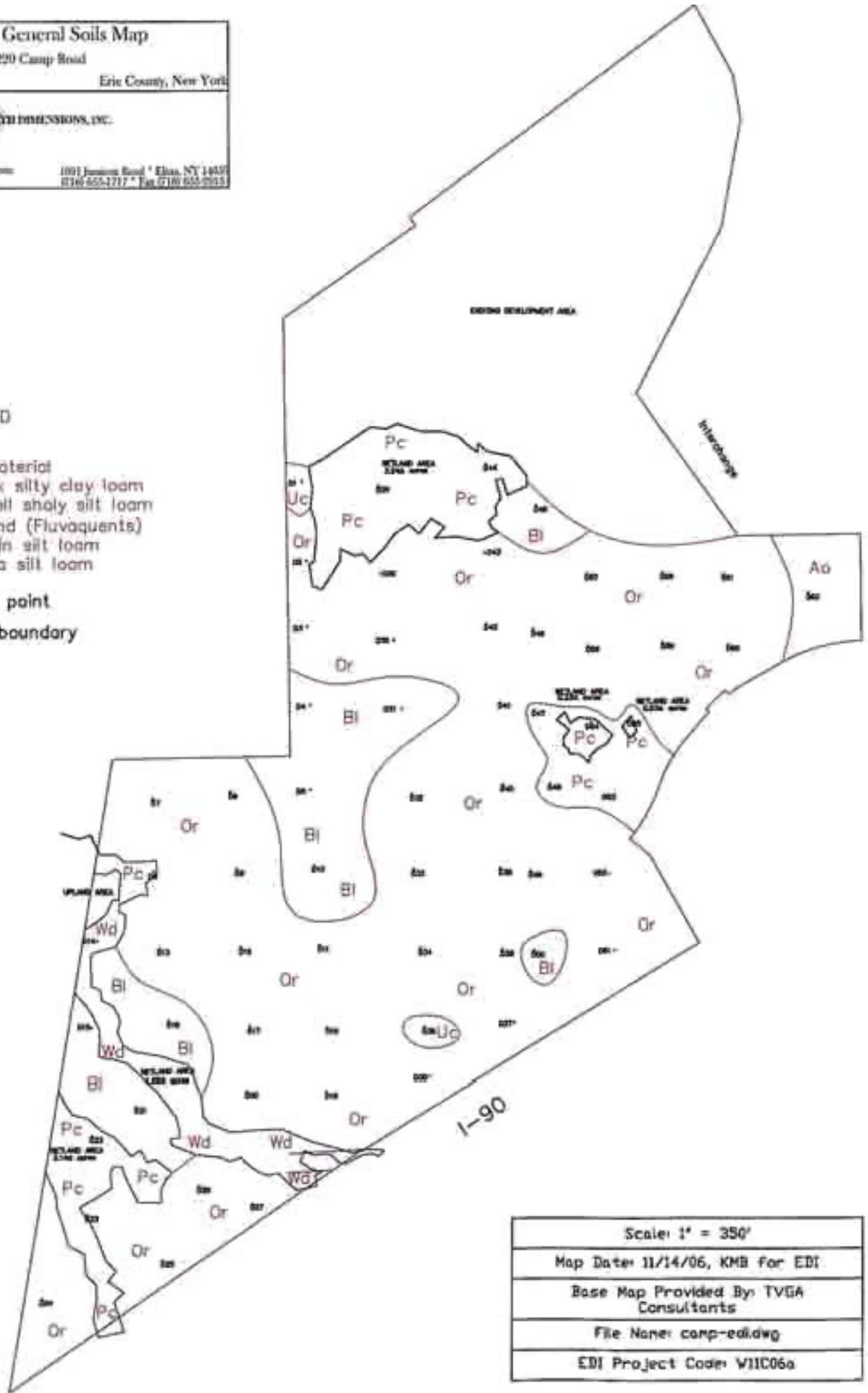


LEGEND

- Uc - Fill material
- Or - Orpark silty clay loam
- Bl - Blasdel shaly silt loam
- Wd - Wayland (Fluvaquents)
- Pc - Patchin silt loam
- Ao - Angola silt loam

• Data point

— Site boundary



Scale: 1" = 350'
Map Date: 11/14/06, KMB for EDI
Base Map Provided By: TVGA Consultants
File Name: comp-ed1.dwg
EDI Project Code: W11C06a

Figure 6: General Vegetation Map

3220 Camp Road

Town of Hamburg

Eric County, New York



\* Soil and Hydrogeologic Investigations  
\* Wetland Delineations

1001 Junction Road \* Erie, NY 14203  
716-655-1777 \* Fax 716-655-3954



LEGEND:

- snh - successional northern hardwoods
- hnhf - hemlock northern hardwood forest
- b-mmff - beech-maple mesic forest
- hhs - hemlock hardwood swamp
- ff - floodplain forest
- rmf - rich mesophytic forest
- hs - hardwood swamp
- mhs - maple hardwood swamp
- m-brmf - maple-basswood rich mesic forest
- ssw - shrub swamp
- ssh - successional shrubland

• Data point

— Site boundary



Scale: 1" = 350'
Map Date: 11/14/06; KMB for EDI
Base Map Provided By: TVGA Consultants
File Name: camp-ed1.dwg
EDI Project Code: W11C06a

Figure 7: Wetland Delineation Map

3220 Camp Road

Town of Hamburg

Eric County, New York



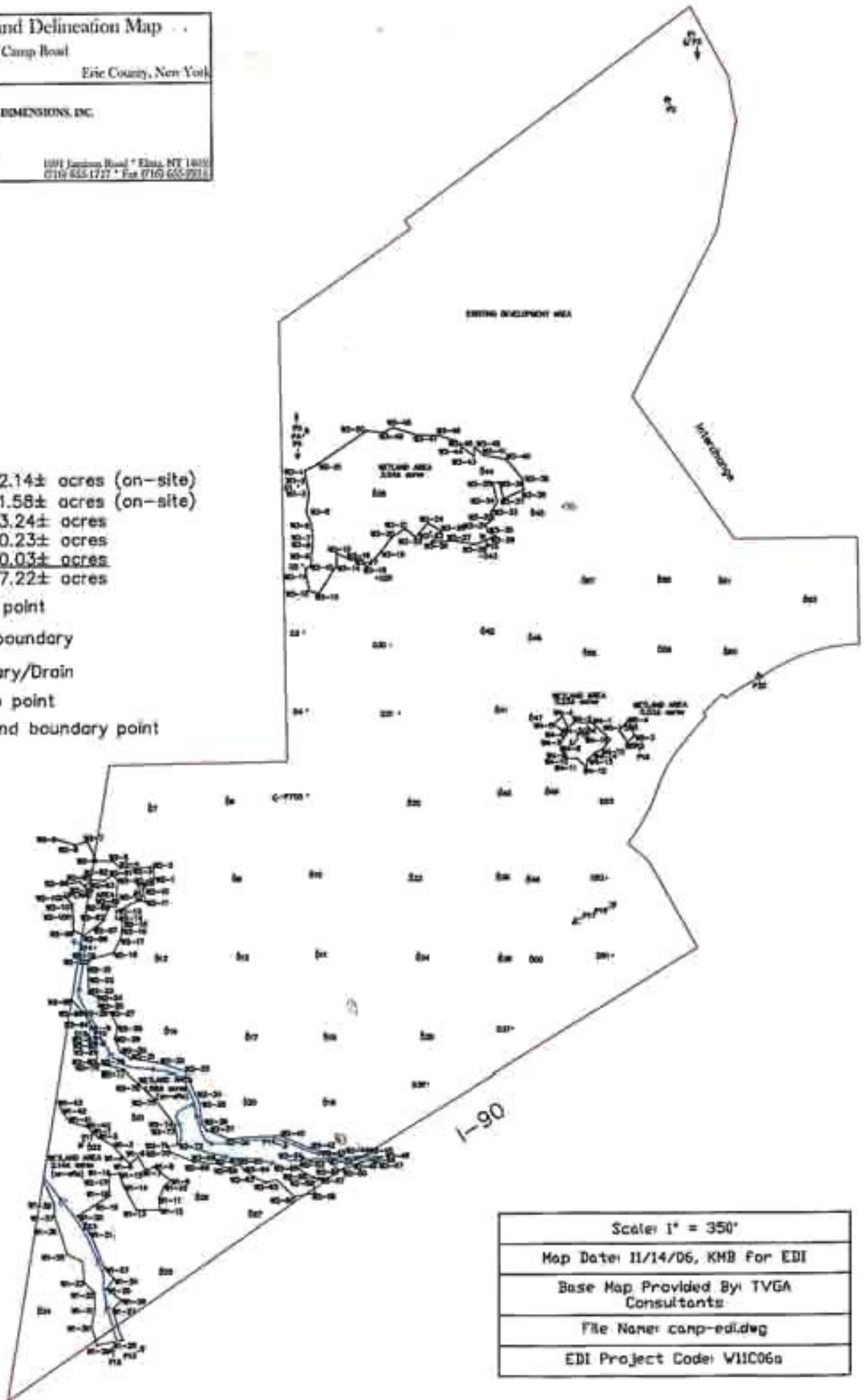
Soil and Hydrogeologic Investigations  
Wetland Delineations

1001 Junction Road • Eliza, NY 14059  
0719 844-1727 • Fax 0716 655-9914



Wetland 1 : 2.14± acres (on-site)  
Wetland 2 : 1.58± acres (on-site)  
Wetland 3 : 3.24± acres  
Wetland 4 : 0.23± acres  
Wetland 5 : 0.03± acres  
Total : 7.22± acres

- Data point
- Site boundary
- ← Tibutary/Drain
- ⊙ Photo point
- ↔ Wetland boundary point



Scale: 1" = 350'
Map Date: 11/14/06, KMB for EDI
Base Map Provided By: TVGA Consultants
File Name: camp-ed.dwg
EDI Project Code: W11C06a

# 5220 Camp Road



## ATTACHMENT B

*Data Forms*

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <u>(Yes)</u> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? Yes <u>No</u>	
Is the area a potential Problem Area? Yes <u>(No)</u>	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID:

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Lianna/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex lasiocarpa</u>	<u>H</u>	<u>+</u>	10.		
2. <u>Carex lasiocarpa</u>	<u>Sh</u>	<u>FAC</u>	11.		
3. <u>Carex lasiocarpa</u>	<u>Sh</u>	<u>FAC</u>	12.		
4. <u>Carex lasiocarpa</u>	<u>Sh</u>	<u>FAC</u>	13.		
5. <u>Carex lasiocarpa</u>	<u>Sh</u>	<u>FAC</u>	14.		
6. <u>Carex lasiocarpa</u>	<u>T</u>	<u>FAC</u>	15.		
7. <u>Carex lasiocarpa</u>	<u>T</u>	<u>FAC</u>	16.		
8. <u>Carex lasiocarpa</u>	<u>L</u>	<u>FAC</u>	17.		
9. <u>Carex lasiocarpa</u>	<u>L</u>	<u>FAC</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>7/9</u>	<u>78%</u>	
Remarks:					

Transect ID: D	Plot ID: f
----------------	------------

### HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

### SOILS

<p>Map Unit Name (Series and Phase): <u>OFFSPK Silty Clay/loam, 0-5% slopes</u></p>		<p>Drainage Class: <u>slow pool</u></p>																									
<p>Taxonomy (Subgroup): <u>ARGIC Epiaqualf</u></p>		<p>Field Observations Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No</p>																									
<p>Profile Description:</p> <table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Muncell Moist)</th> <th>Mottle Colors (Muncell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-12"</td> <td><u>TOPSOIL FILL</u></td> <td><u>10R 7/2</u></td> <td><u>-</u></td> <td><u>-</u></td> <td><u>S/L/GC</u></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-12"	<u>TOPSOIL FILL</u>	<u>10R 7/2</u>	<u>-</u>	<u>-</u>	<u>S/L/GC</u>												
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																						
0-12"	<u>TOPSOIL FILL</u>	<u>10R 7/2</u>	<u>-</u>	<u>-</u>	<u>S/L/GC</u>																						
<p>Hydric Soil Indicators:</p> <table border="0"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>				<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)												
<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions																										
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<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils																										
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List																										
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																										
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																										
<p>Remarks: <u>old topsoil fill, unable to confirm map type</u></p>																											

### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soils Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<p>Remarks:</p>		

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <u>Yes</u> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? Yes <u>No</u>	
Is the area a potential Problem Area? Yes <u>No</u>	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>2</u>

**VEGETATION**

H= Herbaceous      T= Tree  
 Sb= Shrub          L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex lasiocarpa</u>	<u>H</u>	<u>+</u>	10. <u>Sagittaria arifolia</u>	<u>T</u>	<u>+</u>
2. <u>Carex lasiocarpa</u>	<u>H</u>	<u>+</u>	11. <u>Utricularia</u>	<u>L</u>	<u>+</u>
3. <u>Typha latifolia</u>	<u>T</u>	<u>+</u>	12.		
4. <u>Sagittaria arifolia</u>	<u>T</u>	<u>+</u>	13.		
5. <u>Sagittaria arifolia</u>	<u>T</u>	<u>+</u>	14.		
6. <u>Sagittaria arifolia</u>	<u>T</u>	<u>+</u>	15.		
7. <u>Sagittaria arifolia</u>	<u>T</u>	<u>+</u>	16.		
8. <u>Asplenium</u>	<u>T</u>	<u>+</u>	17.		
9. <u>Typha latifolia</u>	<u>T</u>	<u>+</u>	18.		

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

7 / 11      63%

Remarks:

Transect ID: D Plot ID: Z

**HYDROLOGY**

<p>___ Recorded Data (Describe in Remarks)</p> <p>___ Stream, Lake or Tide Gauge</p> <p>___ Aerial Photographs</p> <p>___ Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p>___ Inundated</p> <p>___ Saturated in Upper 12 Inches</p> <p>___ Water Marks</p> <p>___ Drift Lines</p> <p>___ Sediment Deposits</p> <p>___ Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p>___ Oxidized Root Channels in Upper 12"</p> <p>___ Water-stained Leaves</p> <p>___ Local Soil Survey Data</p> <p>___ FAC-Neutral Test</p> <p>___ Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>Oxford S. Hy Clay loam, 0-5% holes</u></p>		<p>Drainage Class: <u>Sew Pool</u></p>																									
<p>Taxonomy (Subgroup): <u>Histic Epipedon</u></p>		<p>Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No</p>																									
<p>Profile Description:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Depth (inches)</th> <th style="width: 10%;">Horizon</th> <th style="width: 20%;">Matrix Color (Muncell Moist)</th> <th style="width: 20%;">Mottle Colors (Muncell Moist)</th> <th style="width: 20%;">Mottle Abundance/Contrast</th> <th style="width: 20%;">Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-6</td> <td>A</td> <td>10R 7/6</td> <td>—</td> <td>—</td> <td>Silt/cl</td> </tr> <tr> <td>6-10</td> <td>B<sub>1</sub></td> <td>2.5Y 5/3</td> <td>10R 5/6</td> <td>15% Dist - r</td> <td>shaly clay</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2.5Y 5/6</td> <td>2% faint</td> <td></td> </tr> </tbody> </table>				Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-6	A	10R 7/6	—	—	Silt/cl	6-10	B <sub>1</sub>	2.5Y 5/3	10R 5/6	15% Dist - r	shaly clay				2.5Y 5/6	2% faint	
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																						
0-6	A	10R 7/6	—	—	Silt/cl																						
6-10	B <sub>1</sub>	2.5Y 5/3	10R 5/6	15% Dist - r	shaly clay																						
			2.5Y 5/6	2% faint																							
<p>Hydric Soil Indicators:</p> <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>___ Histosol</p> <p>___ Histic Epipedon</p> <p>___ Sulfidic Odor</p> <p>___ Aquic Moisture Regime</p> <p>___ Reducing Conditions</p> <p>___ Gleyed or Low-Chroma Colors</p> </td> <td style="width: 50%; vertical-align: top;"> <p>___ Concretions</p> <p>___ High Organic Content in Surface Layer Sandy Soils</p> <p>___ Organic Streaking in Sandy Soils</p> <p>___ Listed on Local Hydric Soils List</p> <p>___ Listed on National Hydric Soils List</p> <p>___ Other (Explain in Remarks)</p> </td> </tr> </table>				<p>___ Histosol</p> <p>___ Histic Epipedon</p> <p>___ Sulfidic Odor</p> <p>___ Aquic Moisture Regime</p> <p>___ Reducing Conditions</p> <p>___ Gleyed or Low-Chroma Colors</p>	<p>___ Concretions</p> <p>___ High Organic Content in Surface Layer Sandy Soils</p> <p>___ Organic Streaking in Sandy Soils</p> <p>___ Listed on Local Hydric Soils List</p> <p>___ Listed on National Hydric Soils List</p> <p>___ Other (Explain in Remarks)</p>																						
<p>___ Histosol</p> <p>___ Histic Epipedon</p> <p>___ Sulfidic Odor</p> <p>___ Aquic Moisture Regime</p> <p>___ Reducing Conditions</p> <p>___ Gleyed or Low-Chroma Colors</p>	<p>___ Concretions</p> <p>___ High Organic Content in Surface Layer Sandy Soils</p> <p>___ Organic Streaking in Sandy Soils</p> <p>___ Listed on Local Hydric Soils List</p> <p>___ Listed on National Hydric Soils List</p> <p>___ Other (Explain in Remarks)</p>																										
<p>Remarks:</p>																											

**WETLAND DETERMINATION**

<p>Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (circle)</p> <p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks:</p>	

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

Project/Site: <u>5220 Camp Road</u>		Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>		Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>		County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Community ID:
Is the site significantly disturbed (Atypical Situation)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<u>SUC. NAT. DE. (MULCH/DO)</u>
Is the area a potential Problem Area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Transect ID: <u>D</u>
(If needed, explain on reverse)		Plot ID:

**VEGETATION**

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Lianna/ Vine  
 S= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>T. canadensis</u>		<u>T</u>	10. <u>S. nemoralis</u>	<u>T</u>	<u>T</u>
2. <u>C. virginica</u>		<u>H</u>	11.		
3. <u>P. virginiana</u>		<u>S</u>	12.		
4. <u>S. nemoralis</u>		<u>T</u>	13.		
5. <u>A. spicatum</u>		<u>S</u>	14.		
6. <u>S. nemoralis</u>		<u>T</u>	15.		
7. <u>A. spicatum</u>		<u>T</u>	16.		
8. <u>S. nemoralis</u>		<u>T</u>	17.		
9. <u>T. canadensis</u>		<u>T</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>9/10</u>	<u>90%</u>	
Remarks: <u>no herbaceous indicator</u>					

Transect ID: D Plot ID: 5

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

Map Unit Name (Series and Phase): Alfisol Silty Clay loam, 2.5% slopes Drainage Class: Sub Poor

Taxonomy (Subgroup): Acric Chromustel Field Observations Confirm Mapped Type?  Yes  No

Profile Description:		Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	<u>10YR 3/2</u>	<u>-</u>	<u>-</u>	<u>SS/GK</u>
6-10	B <sub>10</sub>	<u>2.5Y 5/3</u>	<u>10YR 5/3</u>	<u>15% D.Faint</u>	<u>1/SSG</u>
			<u>2.5Y 5/2</u>	<u>20% Faint</u>	

Hydric Soil Indicators:

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

Remarks:

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No (circle)	Is this Sampling Point Within a Wetland? <input type="radio"/> Yes <input checked="" type="radio"/> No
Wetland Hydrology Present?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Hydric Soils Present?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Remarks:		

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Eric</u>
	State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Plot ID: <u>11</u>
(If needed, explain on reverse)	

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Liana/ Vine  
 S= Sapling

**VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>...</u>			10. <u>...</u>		
2. <u>...</u>			11. <u>...</u>		
3. <u>...</u>			12. <u>...</u>		
4. <u>...</u>			13. <u>...</u>		
5. <u>...</u>			14. <u>...</u>		
6. <u>...</u>			15. <u>...</u>		
7. <u>...</u>			16. <u>...</u>		
8. <u>...</u>			17. <u>...</u>		
9. <u>...</u>			18. <u>...</u>		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>4/9</u>	<u>44%</u>	
Remarks: <u>Wetland boundary</u>					

Transect ID: D Plot ID: 4

**HYDROLOGY**

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

**Wetland hydrology Indicators:**

**Primary Indicators:**

- Inundated
- Saturated in Upper 12 Inches
- Water Marks
- Drift Lines
- Sediment Deposits
- Drainage Patterns in Wetlands

**Secondary Indicators:**

- Oxidized Root Channels in Upper 12"
- Water-stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test
- Other (Explain in Remarks)

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

Remarks:

**SOILS**

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

Drainage Class: Pool  
 Field Observations Confirm Mapped Type? Yes  No

Taxonomy (Subgroup): Aeric endoaquips

**Profile Description:**

Depth (inches)

Horizon

Matrix Color (Muncell Moist)

Mottle Colors (Muncell Moist)

Mottle Abundance/Contrast

Texture, Concretions, Structure, etc.

0-5"

A

10YR 5/2

shs/s/gk

**Hydric Soil Indicators:**

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

- Concretions
- High Organic Content in Surface Layer Sandy Soils
- Organic Streaking in Sandy Soils
- Listed on Local Hydric Soils List
- Listed on National Hydric Soils List
- Other (Explain in Remarks)

Remarks:

**WETLAND DETERMINATION**

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

Is this Sampling Point Within a Wetland? Yes  No

Remarks:

INDEPENDENT BELOW 5"; Actual Und. ident. Fred's Blairdell silt loam

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse)	Plot ID: <u>4</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Sparganium angustifolium</u>	<u>S</u>	<u>1</u>	10.		
2. <u>Sparganium angustifolium</u>	<u>S</u>	<u>1</u>	11.		
3. <u>Sparganium angustifolium</u>	<u>S</u>	<u>1</u>	12.		
4. <u>Sparganium angustifolium</u>	<u>S</u>	<u>1</u>	13.		
5. <u>Sparganium angustifolium</u>	<u>S</u>	<u>1</u>	14.		
6. <u>Sparganium angustifolium</u>	<u>S</u>	<u>1</u>	15.		
7. <u>Sparganium angustifolium</u>	<u>S</u>	<u>1</u>	16.		
8. <u>Sparganium angustifolium</u>	<u>S</u>	<u>1</u>	17.		
9. <u>Sparganium angustifolium</u>	<u>S</u>	<u>1</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>60%</u>	<u>100%</u>	
Remarks: <u>Turkey foot</u>					

Transect ID: D	Plot ID: 4
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### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

### SOILS

Map Unit Name (Series and Phase): <u>Patchin silt loam</u>		Drainage Class: <u>Poor</u>			
Taxonomy (Subgroup): <u>Aeric endoaquapt</u>		Field Observations Confirm Mapped Type? Yes <input checked="" type="radio"/> No			
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-5"	A	10YR 7/2	—	—	shs/s/oa
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors			<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)		
Remarks: <u>2.5m test below 5"; Actual void identified; Alford</u>					

### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No (circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	
Remarks:			

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed, explain on reverse)	Plot ID: <u>5</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Lianna/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Asplenium platyneuron</u>	<u>L</u>	<u>FAC</u>	10.		
2. <u>Thalictrum flavum</u>	<u>Sa</u>	<u>FAC</u>	11.		
3. <u>Tilia americana</u>	<u>Sa</u>	<u>FAC</u>	12.		
4. <u>Phlox pilularis</u>	<u>T</u>	<u>FAC</u>	13.		
5. <u>Phlox pilularis</u>	<u>T</u>	<u>FAC</u>	14.		
6. <u>Oxalis stricta</u>	<u>H</u>	<u>FAC</u>	15.		
7.			16.		
8.			17.		
9.			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>4</u> <u>76</u>	<u>66</u>	<u>70</u>
Remarks:					

Transect ID: D	Plot ID: 5
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### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>ALONE</u> (in.) Depth to Free Water in Pit: <u>ALONE</u> (in.) Depth to Saturated Soil: <u>ALONE</u> (in.)	
Remarks:	

### SOILS

Map Unit Name (Series and Phase): <u>Patchon Silt loam</u>	Drainage Class: <u>Poor</u>																								
Taxonomy (Subgroup): <u>Udic Podsol</u>	Field Observations Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																								
<b>Profile Description:</b>																									
<table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Munsell Moist)</th> <th>Mottle Colors (Munsell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-6</td> <td>A</td> <td>10YR 3/2</td> <td>—</td> <td>—</td> <td>shs: 1/6R</td> </tr> <tr> <td>6-10</td> <td>Bw</td> <td>10YR 4/4</td> <td>—</td> <td>—</td> <td>vshs: 1/1-2R</td> </tr> <tr> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>	Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-6	A	10YR 3/2	—	—	shs: 1/6R	6-10	Bw	10YR 4/4	—	—	vshs: 1/1-2R	—	—	—	—	—	—	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																				
0-6	A	10YR 3/2	—	—	shs: 1/6R																				
6-10	Bw	10YR 4/4	—	—	vshs: 1/1-2R																				
—	—	—	—	—	—																				
<b>Hydric Soil Indicators:</b>																									
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)																								
Remarks: <u>Actual unit identified is Blasdel sandy silt loam</u>																									

### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No (circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes	No <input checked="" type="checkbox"/>	
Hydric Soils Present?	Yes	No <input checked="" type="checkbox"/>	
Remarks:			

W11C06a

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	<u>Herbaceous wetland</u>
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>1</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Sparganium angustifolium</u>	<u>H</u>	<u>4V</u>	10.		
2. <u>Sagittaria arifolia</u>	<u>H</u>	<u>2V</u>	11.		
3. <u>Typha latifolia</u>	<u>H</u>	<u>5V</u>	12.		
4. <u>Phragmites australis</u>	<u>H</u>	<u>1000-</u>	13.		
5. <u>Potamogeton amplifolius</u>	<u>H</u>	<u>1000-</u>	14.		
6. <u>Typha latifolia</u>	<u>Tr</u>	<u>500</u>	15.		
7. <u>A. verticillata</u>	<u>Tr</u>	<u>500</u>	16.		
8. <u>Cyperus sp.</u>	<u>T</u>	<u>1000</u>	17.		
9. <u>Scirpus sp.</u>	<u>T</u>	<u>1000</u>	18.		

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

4/8      22%

Remarks:

*(Faint handwritten notes in the Remarks box)*

Transect ID: D Plot ID: 6

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>Putolin Silt loam</u></p>		<p>Drainage Class: <u>Poor</u></p>																									
<p>Taxonomy (Subgroup): <u>Aeric endoaquert</u></p>		<p>Field Observations Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No</p>																									
<p>Profile Description:</p> <table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Muncell Moist)</th> <th>Mottle Colors (Muncell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-6"</td> <td>A</td> <td>10YR 2.5/2</td> <td>—</td> <td>—</td> <td>Silt/CL</td> </tr> <tr> <td>6-10"</td> <td>BW</td> <td>2.5Y 5/1</td> <td>2.5Y 5/2</td> <td>10% Fa<sub>2</sub></td> <td>SiS/SR</td> </tr> <tr> <td>—</td> <td>—</td> <td>—</td> <td>2.5Y 5/2</td> <td>20% Fa<sub>2</sub></td> <td>—</td> </tr> </tbody> </table>				Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-6"	A	10YR 2.5/2	—	—	Silt/CL	6-10"	BW	2.5Y 5/1	2.5Y 5/2	10% Fa <sub>2</sub>	SiS/SR	—	—	—	2.5Y 5/2	20% Fa <sub>2</sub>	—
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																						
0-6"	A	10YR 2.5/2	—	—	Silt/CL																						
6-10"	BW	2.5Y 5/1	2.5Y 5/2	10% Fa <sub>2</sub>	SiS/SR																						
—	—	—	2.5Y 5/2	20% Fa <sub>2</sub>	—																						
<p>Hydric Soil Indicators:</p> <table border="0"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>				<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)												
<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions																										
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<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils																										
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<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																										
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																										
<p>Remarks: <u>Actual Unit identified as Organic Silty Clay loam</u></p>																											

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	No <input checked="" type="checkbox"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present?	Yes	No <input checked="" type="checkbox"/>	
Hydric Soils Present?	Yes	No <input checked="" type="checkbox"/>	
<p>Remarks:</p>			

W11C06a

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>Beckwith's GSA</u>
Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>7</u>

**VEGETATION**

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Liana/ Vine  
 S= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Panicum capillare</u>	<u>H</u>	<u>50%</u>	10. <u>Panicum capillare</u>	<u>H</u>	<u>50%</u>
2. <u>Panicum capillare</u>	<u>H</u>	<u>50%</u>	11.		
3. <u>Panicum capillare</u>	<u>H</u>	<u>50%</u>	12.		
4. <u>Panicum capillare</u>	<u>H</u>	<u>50%</u>	13.		
5. <u>Panicum capillare</u>	<u>H</u>	<u>50%</u>	14.		
6. <u>Panicum capillare</u>	<u>H</u>	<u>50%</u>	15.		
7. <u>Panicum capillare</u>	<u>H</u>	<u>50%</u>	16.		
8. <u>Panicum capillare</u>	<u>H</u>	<u>50%</u>	17.		
9. <u>Panicum capillare</u>	<u>H</u>	<u>50%</u>	18.		

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

5/10      50%

Remarks:

Transect ID: D	Plot ID: 7
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### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>ABOVE</u> (in.)	
Remarks:	

### SOILS

Map Unit Name (Series and Phase): <u>Patchin silt loam</u>	Drainage Class: <u>Poor</u>				
Taxonomy (Subgroup): <u>Aquic Endoglept</u>	Field Observations Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	10YR 3/2	—	—	cl/lo
6-10	B <sub>mn</sub>	2.5Y 4/4	10YR 5/6	10% Faint	cl/med
			7.5Y 4/2	20% Faint	
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks: <u>Actual unit identified as Oquik silt/clay loam</u>					

### WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks:	

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Community ID:
Is the site significantly disturbed (Atypical Situation)?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the area a potential Problem Area?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>85</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub      L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>D. indiana spinesc.</u>	<u>I</u>	<u>FAC+</u>	10.		
2. <u>T. canadensis</u>	<u>Sh</u>	<u>FAC</u>	11.		
3. <u>S. angustifolia</u>	<u>Sh</u>	<u>FAC</u>	12.		
4. <u>T. latifolia</u>	<u>T</u>	<u>SAC</u>	13.		
5. <u>P. angustifolia</u>	<u>T</u>	<u>SAC</u>	14.		
6. <u>L. linearis</u>	<u>Sh</u>	<u>FAC+</u>	15.		
7.			16.		
8.			17.		
9.			18.		

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

L / L      100%

Remarks:



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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)?    Yes <input type="radio"/> No	Transect ID: <u>D</u>
Is the area a potential Problem Area?                      Yes <input checked="" type="radio"/> No	Plot ID: <input type="checkbox"/>
(If needed, explain on reverse)	

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 S= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Sparganium angustifolium</u>	<u>H</u>	<u>+</u>	10.		
2. <u>Sagittaria arifolia</u>	<u>S</u>	<u>+</u>	11.		
3. <u>Typha latifolia</u>	<u>S</u>	<u>+</u>	12.		
4. <u>Typha latifolia</u>	<u>S</u>	<u>+</u>	13.		
5. <u>Typha latifolia</u>	<u>T</u>	<u>+</u>	14.		
6. <u>Typha latifolia</u>	<u>T</u>	<u>+</u>	15.		
7. <u>Typha latifolia</u>	<u>T</u>	<u>+</u>	16.		
8. <u>Typha latifolia</u>	<u>T</u>	<u>+</u>	17.		
9. <u>Typha latifolia</u>	<u>T</u>	<u>+</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>4/9</u>	<u>44%</u>	
Remarks:					

Transect ID: D Plot ID: 9

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>21/2</u> (in.) Depth to Saturated Soil: <u>21/2</u> (in.)	
<b>Remarks:</b>	

**SOILS**

Map Unit Name (Series and Phase): <u>Patch - Silty loam</u> Taxonomy (Subgroup): <u>Ahfc Proboscipolus</u>	Drainage Class: <u>Poor</u> Field Observations Confirm Mapped Type? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																								
<b>Profile Description:</b> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Depth (inches)</th> <th style="text-align: left;">Horizon</th> <th style="text-align: left;">Matrix Color (Muncell Moist)</th> <th style="text-align: left;">Mottle Colors (Muncell Moist)</th> <th style="text-align: left;">Mottle Abundance/Contrast</th> <th style="text-align: left;">Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td><u>0-5</u></td> <td><u>A</u></td> <td><u>10YR 7/2</u></td> <td><u>—</u></td> <td><u>—</u></td> <td><u>S/S GR</u></td> </tr> <tr> <td><u>5-10</u></td> <td><u>B<sub>10</sub></u></td> <td><u>10YR 5/4</u></td> <td><u>10YR 7/6</u></td> <td><u>10% Faint</u></td> <td><u>S/S / SER</u></td> </tr> <tr> <td><u>—</u></td> <td><u>—</u></td> <td><u>—</u></td> <td><u>10YR 5/2</u></td> <td><u>10% Faint</u></td> <td><u>—</u></td> </tr> </tbody> </table>		Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	<u>0-5</u>	<u>A</u>	<u>10YR 7/2</u>	<u>—</u>	<u>—</u>	<u>S/S GR</u>	<u>5-10</u>	<u>B<sub>10</sub></u>	<u>10YR 5/4</u>	<u>10YR 7/6</u>	<u>10% Faint</u>	<u>S/S / SER</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>10YR 5/2</u>	<u>10% Faint</u>	<u>—</u>
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																				
<u>0-5</u>	<u>A</u>	<u>10YR 7/2</u>	<u>—</u>	<u>—</u>	<u>S/S GR</u>																				
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<u>—</u>	<u>—</u>	<u>—</u>	<u>10YR 5/2</u>	<u>10% Faint</u>	<u>—</u>																				
<b>Hydric Soil Indicators:</b> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>		<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)												
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<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																								
<b>Remarks:</b> <u>Actual unit identified is Oypolk Silty clay loam</u>																									

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (circle) Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>Remarks:</b>	

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	<u>SWAMP - 100% WETLAND</u>
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>10</u>

**VEGETATION**

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Alnus incana</u>	<u>Sh</u>	<u>FAC</u>	10.		
2. <u>Potamogeton</u>	<u>Sh</u>	<u>FAC</u>	11.		
3. <u>Cyperus</u>	<u>Sh</u>	<u>FAC</u>	12.		
4. <u>Potamogeton</u>	<u>T</u>	<u>FAC</u>	13.		
5. <u>Potamogeton</u>	<u>Sh</u>	<u>FAC</u>	14.		
6. <u>Potamogeton</u>	<u>T</u>	<u>FAC</u>	15.		
7. <u>Alnus</u>	<u>Sh</u>	<u>FAC</u>	16.		
8. <u>Sagittaria</u>	<u>H</u>	<u>FAC</u>	17.		
9.			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>1/2</u>	<u>13%</u>	
Remarks:					

Transect ID: D Plot ID: 10

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: _____ (in.)	
Remarks:	

**SOILS**

Map Unit Name (Series and Phase): <u>Pitcher silt loam</u>	Drainage Class: <u>Poor</u> Field Observations Confirm Mapped Type? Yes <input checked="" type="radio"/> No <input type="radio"/>																								
Taxonomy (Subgroup): <u>Acric Oxyaquic</u>																									
<b>Profile Description:</b>																									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Depth (inches)</th> <th style="text-align: left;">Horizon</th> <th style="text-align: left;">Matrix Color (Muncell Moist)</th> <th style="text-align: left;">Mottle Colors (Muncell Moist)</th> <th style="text-align: left;">Mottle Abundance/Contrast</th> <th style="text-align: left;">Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0-6</td> <td style="text-align: center;">A</td> <td style="text-align: center;">10YR 2/2</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">shs/s/gk</td> </tr> <tr> <td style="text-align: center;">6-10</td> <td style="text-align: center;">Bw</td> <td style="text-align: center;">10YR 4/4</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">shs/s/gk</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-6	A	10YR 2/2	—	—	shs/s/gk	6-10	Bw	10YR 4/4	—	—	shs/s/gk							
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																				
0-6	A	10YR 2/2	—	—	shs/s/gk																				
6-10	Bw	10YR 4/4	—	—	shs/s/gk																				
<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors <input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)																									
Remarks: <u>Actual vert identified as Blairdell Gray silt loam</u>																									

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Hydric Soils Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks:	

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes <input checked="" type="radio"/> No <input type="radio"/>	Community ID:
Is the site significantly disturbed (Atypical Situation)?      Yes <input type="radio"/> No <input checked="" type="radio"/>	<u>Herbaceous wetland</u>
Is the area a potential Problem Area?      Yes <input type="radio"/> No <input checked="" type="radio"/>	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>11</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub      L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Monarda</u>		<u>**</u>	10.		
2. <u>T. ...</u>		<u>FAC</u>	11.		
3. <u>F. ...</u>			12.		
4. <u>...</u>			13.		
5. <u>T. ...</u>		<u>T FAC</u>	14.		
6. <u>...</u>		<u>T FAC</u>	15.		
7. <u>...</u>		<u>T FAC</u>	16.		
8. <u>...</u>		<u>T FAC</u>	17.		
9.			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>4/8</u>	<u>50%</u>	
Remarks:					

Transect ID: D	Plot ID:
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### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
<b>Remarks:</b>	

### SOILS

Map Unit Name (Series and Phase): <u>Antennia silt loam</u>	Drainage Class: <u>Poor</u>																								
Taxonomy (Subgroup): <u>Allic endoaqupt</u>	Field Observations Confirm Mapped Type? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																								
<b>Profile Description:</b>																									
<table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Muncell Moist)</th> <th>Mottle Colors (Muncell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-6</td> <td>A</td> <td>10YR 3/2</td> <td>-</td> <td>-</td> <td>silty loam</td> </tr> <tr> <td>6-10</td> <td>B<sub>1</sub></td> <td>9.5Y 5/3</td> <td>2.5Y 5/2</td> <td>20% faint</td> <td>shaly / silty</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2.5Y 5/6</td> <td>10% faint</td> <td></td> </tr> </tbody> </table>	Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-6	A	10YR 3/2	-	-	silty loam	6-10	B <sub>1</sub>	9.5Y 5/3	2.5Y 5/2	20% faint	shaly / silty				2.5Y 5/6	10% faint		
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																				
0-6	A	10YR 3/2	-	-	silty loam																				
6-10	B <sub>1</sub>	9.5Y 5/3	2.5Y 5/2	20% faint	shaly / silty																				
			2.5Y 5/6	10% faint																					
<b>Hydric Soil Indicators:</b>																									
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)																								
<b>Remarks:</b> <u>Actual unit identified = Osprey silty clay loam</u>																									

### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soils Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Remarks:</b>		

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	<u>Disturbance</u>
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>12</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Lianna/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Sparganium angustifolium</u>	<u>Sa</u>	<u>Fac</u>	10.		
2. <u>Phragmites australis</u>	<u>Sh</u>	<u>Tr</u>	11.		
3. <u>Typha latifolia</u>	<u>Sh</u>	<u>Tr</u>	12.		
4. <u>Scirpus americanus</u>	<u>Sh</u>	<u>Tr</u>	13.		
5. <u>Sagittaria arifolia</u>	<u>H</u>	<u>Tr</u>	14.		
6. <u>Sparganium angustifolium</u>	<u>Sa</u>	<u>Fac</u>	15.		
7. <u>Phragmites australis</u>	<u>Sh</u>	<u>Tr</u>	16.		
8.			17.		
9.			18.		

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

1/2      57%

Remarks:

Transect ID: D Plot ID: 12

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

Map Unit Name (Series and Phase): 01PARK S.H.V Clay loam, 0-5% slope? Drainage Class: SW Poor

Taxonomy (Subgroup): Aeric Epiaquept Field Observations Confirm Mapped Type?  Yes  No

Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>10YR 5/6</u>	<u>-</u>	<u>-</u>	<u>S/S/GR</u>
<u>6-10</u>	<u>BW</u>	<u>2.5Y 5/3</u>	<u>2.5Y 5/2</u>	<u>20% Faint</u>	<u>S/S/GRA</u>
			<u>2.5Y 5/6</u>	<u>10% Faint</u>	

Hydric Soil Indicators:

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

Remarks:

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Hydric Soils Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks:	

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

Project/Site: <u>5220 Camp Road</u>		Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>		Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>		County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Community ID:
Is the site significantly disturbed (Atypical Situation)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<u>Hermitage - 100/100</u>
Is the area a potential Problem Area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Transect ID: <u>D</u>
(If needed, explain on reverse)		Plot ID: <u>13</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sap= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Sparganium angustifolium</u>	<u>T</u>	<u>100</u>	10.		
2. <u>Sagittaria arifolia</u>	<u>D</u>	<u>FAC</u>	11.		
3. <u>Potamogeton amplifolius</u>	<u>T</u>	<u>100</u>	12.		
4. <u>Potamogeton amplifolius</u>	<u>T</u>	<u>100</u>	13.		
5. <u>Potamogeton amplifolius</u>	<u>T</u>	<u>100</u>	14.		
6. <u>Potamogeton amplifolius</u>	<u>T</u>	<u>100</u>	15.		
7. <u>Potamogeton amplifolius</u>	<u>T</u>	<u>100</u>	16.		
8. <u>Potamogeton amplifolius</u>	<u>T</u>	<u>100</u>	17.		
9. <u>Potamogeton amplifolius</u>	<u>T</u>	<u>100</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>3/9</u>	<u>7870</u>	
Remarks: <u>Potentilla woodpecker cavity in dead tree</u>					

Transect ID: D Plot ID: 13

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

**SOILS**

Map Unit Name (Series and Phase): <u>OPARK S, HY Clay loam, 0-5% slope SW Pool</u>		Drainage Class: <u>SW Pool</u>			
Taxonomy (Subgroup): <u>Aque Regcept</u>		Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No			
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-4</u>	<u>R</u>	<u>10YR 5/2</u>	<u>-</u>	<u>-</u>	<u>silica</u>
<u>4-10</u>	<u>Bw</u>	<u>2.5Y 5/4</u>	<u>2.5Y 5/6</u>	<u>10% Fe<sup>++</sup></u>	<u>silica</u>
			<u>2.5Y 5/2</u>	<u>10% Fe<sup>++</sup></u>	
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	<input checked="" type="radio"/> No	(circle)
Wetland Hydrology Present?	Yes	<input checked="" type="radio"/> No	
Hydric Soils Present?	Yes	<input checked="" type="radio"/> No	
Is this Sampling Point Within a Wetland?			Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks:			

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Plot ID: <u>14</u>
(If needed, explain on reverse)	

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

**VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Impatiens capensis</u>	<u>H</u>	<u>FACW</u>	10. <u>Thalictrum</u>	<u>T</u>	<u>FACW</u>
2. <u>Polygonum</u>	<u>H</u>	<u>FACW</u>	11. <u>Sparganium</u>	<u>T</u>	<u>FACW</u>
3. <u>Aster</u>	<u>H</u>	<u>FAC</u>	12. <u>Ternstroemia</u>	<u>L</u>	<u>FAC</u>
4. <u>Lonicera</u>	<u>Sh</u>	<u>FACW</u>	13. <u>Urtica</u>	<u>T</u>	<u>FACW</u>
5. <u>Solidago</u>	<u>H</u>	<u>FACW</u>	14.		
6. <u>Urtica</u>	<u>T</u>	<u>FAC</u>	15.		
7. <u>Erigeron</u>	<u>H</u>	<u>FACW</u>	16.		
8. <u>Urtica</u>	<u>T</u>	<u>FACW</u>	17.		
9. <u>Polygonum</u>	<u>H</u>	<u>FAC</u>	18.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)      11/13      85%

Remarks: well

Transect ID: D Plot ID: 14

**HYDROLOGY**

<p>___ Recorded Data (Describe in Remarks)</p> <p>___ Stream, Lake or Tide Gauge</p> <p>___ Aerial Photographs</p> <p>___ Other</p> <p><u>X</u> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p>___ Inundated</p> <p><u>X</u> Saturated in Upper 12 Inches</p> <p>___ Water Marks</p> <p>___ Drift Lines</p> <p>___ Sediment Deposits</p> <p>___ Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p>___ Oxidized Root Channels in Upper 12"</p> <p><u>X</u> Water-stained Leaves</p> <p>___ Local Soil Survey Data</p> <p>___ FAC-Neutral Test</p> <p>___ Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>SURFACE</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>Fluvasols and Udifluvasols, frequently flooded</u></p>		<p>Drainage Class: <u>Poor - Well</u></p>																									
<p>Taxonomy (Subgroup): <u>N/A</u></p>		<p>Field Observations Confirm Mapped Type? <u>Yes</u> No</p>																									
<p>Profile Description:</p> <table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Muncell Moist)</th> <th>Mottle Colors (Muncell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td><u>0-5</u></td> <td><u>A</u></td> <td><u>10YR 7/2</u></td> <td><u>—</u></td> <td><u>—</u></td> <td><u>Silt/cl</u></td> </tr> <tr> <td><u>5-10</u></td> <td><u>Bw</u></td> <td><u>10YR 7/2</u></td> <td><u>10YR 5/2</u></td> <td><u>5% distinct</u></td> <td><u>Silt/cl</u></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	<u>0-5</u>	<u>A</u>	<u>10YR 7/2</u>	<u>—</u>	<u>—</u>	<u>Silt/cl</u>	<u>5-10</u>	<u>Bw</u>	<u>10YR 7/2</u>	<u>10YR 5/2</u>	<u>5% distinct</u>	<u>Silt/cl</u>						
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																						
<u>0-5</u>	<u>A</u>	<u>10YR 7/2</u>	<u>—</u>	<u>—</u>	<u>Silt/cl</u>																						
<u>5-10</u>	<u>Bw</u>	<u>10YR 7/2</u>	<u>10YR 5/2</u>	<u>5% distinct</u>	<u>Silt/cl</u>																						
<p>Hydric Soil Indicators:</p> <table border="0"> <tr> <td>___ Histosol</td> <td>___ Concretions</td> </tr> <tr> <td>___ Histic Epipedon</td> <td>___ High Organic Content in Surface Layer Sandy Soils</td> </tr> <tr> <td>___ Sulfidic Odor</td> <td>___ Organic Streaking in Sandy Soils</td> </tr> <tr> <td>___ Aquic Moisture Regime</td> <td>___ Listed on Local Hydric Soils List</td> </tr> <tr> <td>___ Reducing Conditions</td> <td>___ Listed on National Hydric Soils List</td> </tr> <tr> <td>___ Gleyed or Low-Chroma Colors</td> <td>___ Other (Explain in Remarks)</td> </tr> </table>				___ Histosol	___ Concretions	___ Histic Epipedon	___ High Organic Content in Surface Layer Sandy Soils	___ Sulfidic Odor	___ Organic Streaking in Sandy Soils	___ Aquic Moisture Regime	___ Listed on Local Hydric Soils List	___ Reducing Conditions	___ Listed on National Hydric Soils List	___ Gleyed or Low-Chroma Colors	___ Other (Explain in Remarks)												
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___ Aquic Moisture Regime	___ Listed on Local Hydric Soils List																										
___ Reducing Conditions	___ Listed on National Hydric Soils List																										
___ Gleyed or Low-Chroma Colors	___ Other (Explain in Remarks)																										
<p>Remarks: <u>Wetlands (Fluvasols); most of stream channel is undifferentiated fluvasols or shale bedrock w/ no overburden</u></p>																											

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	<u>Yes</u> No (circle)	Is this Sampling Point Within a Wetland? <u>Yes</u> No
Wetland Hydrology Present?	<u>Yes</u> No	
Hydric Soils Present?	<u>Yes</u> No	
<p>Remarks:</p>		

W11C06a

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	<u>Rich mesophytic forest</u>
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>15</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Lianna/ Vine  
 Su= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Eleocharis acicularis</u>	<u>H</u>	<u>FAC-</u>	10. <u>Amphicarpum heterophyllum</u>	<u>H</u>	<u>FAC</u>
2. <u>Typha latifolia</u>	<u>H</u>	<u>FAC-</u>	11.		
3. <u>Scirpus americanus</u>	<u>H</u>	<u>FAC-</u>	12.		
4. <u>Eleocharis acicularis</u>	<u>H</u>	<u>FAC-</u>	13.		
5. <u>Eleocharis acicularis</u>	<u>H</u>	<u>FAC-</u>	14.		
6. <u>Eleocharis acicularis</u>	<u>H</u>	<u>FAC-</u>	15.		
7. <u>Eleocharis acicularis</u>	<u>H</u>	<u>FAC-</u>	16.		
8. <u>Eleocharis acicularis</u>	<u>H</u>	<u>FAC-</u>	17.		
9. <u>Eleocharis acicularis</u>	<u>H</u>	<u>FAC-</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>3/10</u>		<u>30%</u>
Remarks: <u>see notes on back of form</u>					

Transect ID: D Plot ID: 15

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>ADDME</u> (in.)</p> <p>Depth to Free Water in Pit: <u>ADDME</u> (in.)</p> <p>Depth to Saturated Soil: <u>ADDME</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>Dipark silty clay loam, 0-3% slope</u></p>		<p>Drainage Class: <u>SW Poor</u></p>																									
<p>Taxonomy (Subgroup): <u>Acric epiaquept</u></p>		<p>Field Observations Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No</p>																									
<p>Profile Description:</p> <table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Muncell Moist)</th> <th>Mottle Colors (Muncell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-6</td> <td>A</td> <td>10YR 7/2</td> <td>-</td> <td>-</td> <td>silty</td> </tr> <tr> <td>6-10</td> <td>Bw</td> <td>10YR 9/4</td> <td>-</td> <td>-</td> <td>silty/clay</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-6	A	10YR 7/2	-	-	silty	6-10	Bw	10YR 9/4	-	-	silty/clay						
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0-6	A	10YR 7/2	-	-	silty																						
6-10	Bw	10YR 9/4	-	-	silty/clay																						
<p>Hydric Soil Indicators:</p> <table border="0"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>				<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)												
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<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																										
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																										
<p>Remarks: <u>Actual unit identified: Blasdell Silty silt loam, Actual slope &gt; 15%</u></p>																											

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	No <input checked="" type="checkbox"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present?	Yes	No <input checked="" type="checkbox"/>	
Hydric Soils Present?	Yes	No <input checked="" type="checkbox"/>	
<p>Remarks:</p>			

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? (Yes) <input checked="" type="checkbox"/> (No) <input type="checkbox"/>	Community ID:
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<u>See notes on back</u>
Is the area a potential Problem Area? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>10</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Phragmites</u>	<u>Sa</u>	<u>FAC</u>	10.		
2. <u>Typha</u>	<u>Sa</u>	<u>FAC</u>	11.		
3. <u>Sparganium</u>	<u>Sa</u>	<u>FAC</u>	12.		
4. <u>Najas</u>	<u>T</u>	<u>FAC</u>	13.		
5. <u>T. latifolia</u>	<u>T</u>	<u>FAC</u>	14.		
6. <u>Sparganium</u>	<u>Sa</u>	<u>FAC</u>	15.		
7. <u>Sparganium</u>	<u>Sa</u>	<u>FACW</u>	16.		
8. <u>T. latifolia</u>	<u>T</u>	<u>FACW</u>	17.		
9. <u>Phragmites</u>	<u>Sa</u>	<u>FACW</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>4/9</u>	<u>44%</u>	
Remarks: <u>9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18</u>					

Transect ID: D Plot ID: 16

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

**SOILS**

Map Unit Name (Series and Phase): <u>Orpank silty clay loam, 0-3% slope</u>		Drainage Class: <u>sw flow</u>			
Taxonomy (Subgroup): <u>Aric epiaqualf</u>		Field Observations Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No			
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	10YR 7/2	-	-	silty/clay
6-10	Bw	10YR 5/4	-	-	shrink/swell
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks: <u>Actual unit identified = Glaswell silty clay loam</u>					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	No <input checked="" type="checkbox"/>	(circle)
Wetland Hydrology Present?	Yes	No <input checked="" type="checkbox"/>	
Hydric Soils Present?	Yes	No <input checked="" type="checkbox"/>	
Is this Sampling Point Within a Wetland?			Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:			

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	<u>15220 - 15220 (15220)</u> <u>15220 - 15220</u>
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>17</u>

**VEGETATION**

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Liana/ Vine  
 S= Saplmg

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Panicum capillare</u>	<u>11</u>	<u>A</u>	10.		
2. <u>Eleocharis acicularis</u>	<u>Sh</u>	<u>FAC</u>	11.		
3. <u>Phragmites australis</u>	<u>Sh</u>	<u>FAC</u>	12.		
4. <u>Panicum capillare</u>	<u>11</u>	<u>A</u>	13.		
5. <u>Typha latifolia</u>	<u>T</u>	<u>FAC</u>	14.		
6. <u>Panicum capillare</u>	<u>T</u>	<u>FAC</u>	15.		
7. <u>Panicum capillare</u>	<u>T</u>	<u>FAC</u>	16.		
8. <u>Typha latifolia</u>	<u>T</u>	<u>FAC</u>	17.		
9. <u>Typha latifolia</u>	<u>T</u>	<u>FAC</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>2/3</u>		<u>33%</u>
Remarks: <u>Star-nosed mole</u>					

Transect ID: D Plot ID: 17

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	

Remarks:

**SOILS**

Map Unit Name (Series and Phase): Oriskany silty clay loam, 0-5% slopes Drainage Class: low pool

Taxonomy (Subgroup): Aeric epiaquost Field Observations Confirm Mapped Type?  Yes  No

Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>10YR 7/2</u>			<u>silty</u>
<u>6-10</u>	<u>Bw</u>	<u>2.5Y 5/3</u>	<u>2.5Y 5/3</u>	<u>25% faint</u>	<u>shaly</u>
			<u>2.0Y 5/6</u>	<u>10% faint</u>	

**Hydric Soil Indicators:**

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

Remarks:

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks:	

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? (Yes) No	Community ID:
Is the site significantly disturbed (Atypical Situation)? Yes No	<u>Barren - No Pice</u>
Is the area a potential Problem Area? Yes No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>18</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Asplenium</u>	<u>H</u>	<u>2</u>	10.		
2. <u>Utricularia</u>	<u>Sa</u>	<u>FAC</u>	11.		
3. <u>Typha</u>	<u>Sa</u>	<u>FAC</u>	12.		
4. <u>Sagittaria</u>	<u>Sa</u>	<u>FAC</u>	13.		
5. <u>Calla</u>	<u>Sa</u>	<u>FAC</u>	14.		
6. <u>Typha</u>	<u>T</u>	<u>FAC</u>	15.		
7. <u>Utricularia</u>	<u>T</u>	<u>FAC</u>	16.		
8. <u>Botrychium</u>	<u>T</u>	<u>FAC</u>	17.		
9. <u>Acer</u>	<u>T</u>	<u>FAC</u>	18.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-) 5/9 56%

Remarks:

*[Faint handwritten notes at the bottom of the page]*

Transect ID: D Plot ID: 18

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
<b>Remarks:</b>	

**SOILS**

Map Unit Name: (Series and Phase): <u>OFFSITE: Silty Clay loam, 0-3% slopes</u>		Drainage Class: <u>SW POOR</u>			
Taxonomy (Subgroup): <u>AUIC Oplagcept</u>		Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No			
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-6"</u>	<u>A</u>	<u>10R2 3/2</u>	<u>-</u>	<u>-</u>	<u>Silt/clay</u>
<u>6-10"</u>	<u>BW</u>	<u>2.5Y 5/4</u>	<u>2.5Y 7/6</u>	<u>10R2 Faint</u>	<u>1.5K12</u>
			<u>2.5Y 5/2</u>	<u>7.0R2 Faint</u>	
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
<b>Remarks:</b>					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	<input checked="" type="radio"/> No (circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No
Wetland Hydrology Present?	Yes	<input checked="" type="radio"/> No	
Hydric Soils Present?	Yes	<input checked="" type="radio"/> No	
<b>Remarks:</b>			

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	<u>Blackberry (Rasp)</u>
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>19</u>

**VEGETATION**

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Cyperus sp.</u>	<u>H</u>	<u>S</u>	10. <u>Cyperus sp.</u>	<u>H</u>	<u>S</u>
2. <u>Calla palustris</u>	<u>Sh</u>	<u>FAC</u>	11. <u>Monarda uniflora</u>	<u>FACU</u>	
3. <u>Typha latifolia</u>	<u>Sh</u>	<u>FAC</u>	12.		
4. <u>Potamogeton amplifolius</u>	<u>Sh</u>	<u>FACU</u>	13.		
5. <u>Typha latifolia</u>	<u>Sh</u>	<u>FAC</u>	14.		
6. <u>Typha latifolia</u>	<u>T</u>	<u>FAC</u>	15.		
7. <u>Typha latifolia</u>	<u>T</u>	<u>FACU</u>	16.		
8. <u>Najas</u>	<u>T</u>	<u>FACU</u>	17.		
9. <u>Typha latifolia</u>	<u>T</u>	<u>FACU</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>3/11</u>		<u>27%</u>
Remarks:					

Transect ID: D	Plot ID: 109
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**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
<b>Remarks:</b>	

**SOILS**

Map Unit Name (Series and Phase): <u>D1 Dark Silty Clay loam, 0-3% Slope</u>		Drainage Class: <u>Sw. Pool</u>			
Taxonomy (Subgroup): <u>Aplic epiaerob</u>		Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No			
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>2.5Y 9/2</u>			<u>LS/GR</u>
<u>6-10</u>	<u>Bw</u>	<u>2.5Y 7/4</u>	<u>2.5Y 5/2</u>	<u>20% faint</u>	<u>sh. silty/SS</u>
			<u>2.5Y 5/3</u>	<u>10% Dotted</u>	
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors			<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)		
<b>Remarks:</b>					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	No	(circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Wetland Hydrology Present?	Yes	No	<input checked="" type="radio"/>	
Hydric Soils Present?	Yes	No	<input checked="" type="radio"/>	
<b>Remarks:</b>				

W11C06a

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Community ID:
Is the site significantly disturbed (Atypical Situation)?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<u>Restoration (see notes)</u>
Is the area a potential Problem Area?                      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>20</u>

**VEGETATION**

H= Herbaceous      Tr= Trees  
 Sh= Shrub          L= Liana/ Vine  
 S= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Hydrocotyle</u>		<u>Tr</u>	10.		
2. <u>Polygonum</u>		<u>Sh</u>	11.		
3. <u>Sparganium</u>		<u>Tr</u>	12.		
4. <u>Typha</u>		<u>Tr</u>	13.		
5. <u>Sagittaria</u>		<u>Tr</u>	14.		
6. <u>Sparganium</u>		<u>Tr</u>	15.		
7. <u>Sparganium</u>		<u>Tr</u>	16.		
8. <u>Sparganium</u>		<u>Tr</u>	17.		
9. <u>Epifagus virginiana</u>		<u>Tr</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>4/9</u>	<u>44%</u>	
Remarks: <u>C-101</u>					

Transect ID: D	Plot ID: 20
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### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

### SOILS

Map Unit Name (Series and Phase): <u>BRANK Silty clay loam, 0-5/2 Shp25</u>		Drainage Class: <u>SW POOL</u>			
Taxonomy (Subgroup): <u>AR1c epiacept</u>		Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No			
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-5</u>	<u>A</u>	<u>2.5Y 1/2</u>	<u>-</u>	<u>-</u>	<u>sl / br</u>
<u>5-10</u>	<u>BE</u>	<u>2.5Y 5/3</u>	<u>2.5Y 5/2</u>	<u>30% faint</u>	<u>sl / br / 10%</u>
			<u>2.5Y 5/6</u>	<u>10% distinct</u>	
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors			<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)		
Remarks:					

### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No (circle)	Is this Sampling Point Within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present?	Yes	No <input checked="" type="radio"/>	
Hydric Soils Present?	Yes	No <input checked="" type="radio"/>	
Remarks:			

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes   No	Community ID:
Is the site significantly disturbed (Atypical Situation)?    Yes   No	<u>Beech-maple forest</u>
Is the area a potential Problem Area?                      Yes   No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>D1</u>

**VEGETATION**

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Lianna/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Blackberry</u>		<u>FAC</u>	10.		
2. <u>A. sp.</u>		<u>Sa</u>	11.		
3. <u>Tree</u>		<u>T</u>	12.		
4. <u>A. sp.</u>		<u>FAC</u>	13.		
5. <u>A. sp.</u>		<u>FAC</u>	14.		
6. <u>T. sp.</u>		<u>T</u>	15.		
7. <u>A. sp.</u>		<u>FAC</u>	16.		
8. <u>A. sp.</u>		<u>FAC</u>	17.		
9. <u>A. sp.</u>		<u>FAC</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>4/9</u>	<u>44%</u>	
Remarks: <u>open field</u>					

Transect ID: D | Plot ID: 2 |

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>Oldark silty clay loam, 0-5% slopes</u></p>		<p>Drainage Class: <u>SW Poor</u></p>																								
<p>Taxonomy (Subgroup): <u>ARIC epipedon</u></p>		<p>Field Observations Confirm Mapped Type? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>																								
<p>Profile Description:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Muncell Moist)</th> <th>Mottle Colors (Muncell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td><u>0-3</u></td> <td><u>A</u></td> <td><u>10R<sup>3</sup>/2</u></td> <td><u>-</u></td> <td><u>-</u></td> <td><u>shd / lsc</u></td> </tr> <tr> <td><u>3-10</u></td> <td><u>Bw</u></td> <td><u>2.5Y<sup>5</sup>/1</u></td> <td><u>-</u></td> <td><u>-</u></td> <td><u>shd / rsc</u></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	<u>0-3</u>	<u>A</u>	<u>10R<sup>3</sup>/2</u>	<u>-</u>	<u>-</u>	<u>shd / lsc</u>	<u>3-10</u>	<u>Bw</u>	<u>2.5Y<sup>5</sup>/1</u>	<u>-</u>	<u>-</u>	<u>shd / rsc</u>						
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																					
<u>0-3</u>	<u>A</u>	<u>10R<sup>3</sup>/2</u>	<u>-</u>	<u>-</u>	<u>shd / lsc</u>																					
<u>3-10</u>	<u>Bw</u>	<u>2.5Y<sup>5</sup>/1</u>	<u>-</u>	<u>-</u>	<u>shd / rsc</u>																					
<p>Hydric Soil Indicators:</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>			<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)												
<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions																									
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<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils																									
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List																									
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																									
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																									
<p>Remarks: <u>Actual unit identified as Blasell silty clay loam; actual slope = 15%</u></p>																										

**WETLAND DETERMINATION**

<p>Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (circle)</p> <p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks:</p>	

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/>	Transect ID: <u>D</u>
Is the area a potential Problem Area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed, explain on reverse)	Plot ID: <u>22</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 S= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex lasiocarpa</u>	<u>II</u>	<u>FACW</u>	10.		
2. <u>Utricularia</u>	<u>II</u>	<u>OBL</u>	11.		
3. <u>Agrostis sp</u>	<u>II</u>	<u>*</u>	12.		
4. <u>Rivercane</u>	<u>II</u>	<u>FAC</u>	13.		
5. <u>Utricularia</u>	<u>II</u>	<u>FACW</u>	14.		
6. <u>Agrostis</u>	<u>II</u>	<u>FAC</u>	15.		
7. <u>Fern</u>	<u>II</u>	<u>FAC</u>	16.		
8. <u>Utricularia</u>	<u>II</u>	<u>FACW</u>	17.		
9. <u>Fern</u>	<u>II</u>	<u>FAC</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>8/21</u>	<u>89%</u>	
Remarks: <u>P. 5-11</u>					

Transect ID: D	Plot ID: 27
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### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

### SOILS

Map Unit Name (Series and Phase): <u>Fluvisols and Ustisols, <sup>highly hydric</sup></u>	Drainage Class: <u>Poor-well</u> Field Observations Confirm Mapped Type? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Taxonomy (Subgroup): <u>N/A</u>					
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	10R 3/2	—	—	silt/cl
6-10	Bq	2.5Y 5/2	2.5Y 5/2	100% lined	ENG 1/4 BK
—	—	—	—	—	—
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input checked="" type="checkbox"/> Aquic Moisture Regime <input checked="" type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors			<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)		
Remarks: <u>Actual unit identified = patchy silt loam</u>					

### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	(circle)	Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Hydric Soils Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Remarks:				

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Community ID:
Is the site significantly disturbed (Atypical Situation)? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<u>See COE Delineation Report</u>
Is the area a potential Problem Area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>03</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Lianna/ Vine  
 Sap= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>C. ...</u>			10.		
2. <u>P. ...</u>			11.		
3. <u>P. ...</u>			12.		
4. <u>S. ...</u>			13.		
5. <u>C. ...</u>			14.		
6. <u>P. ...</u>			15.		
7. <u>T. ...</u>			16.		
8. <u>P. ...</u>			17.		
9.			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>1/8</u>	<u>13%</u>	
Remarks: <u>old orchard</u>					

Transect ID: D Plot ID: 23

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

**SOILS**

Map Unit Name (Series and Phase): <u>NEPAK SILTY clay loam, 0-3% slopes</u>		Drainage Class: <u>SW Pool</u>			
Taxonomy (Subgroup): <u>Aeric Epiaerpt</u>		Field Observations: Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No			
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	1.5Y 2/2	—	—	sil/lat
6-10	B <sub>ws</sub>	2.5Y 5/4	2.5Y 5/4	20% Faint	sil/col
—	—	—	2.5Y 5/6	10% Faint	—
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soils Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks:		

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes   No	Community ID:
Is the site significantly disturbed (Atypical Situation)?    Yes   No	
Is the area a potential Problem Area?                      Yes   No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>24</u>

**VEGETATION**

**H=** Herbaceous      **Tr=** Tree  
**Sh=** Shrub            **L=** Liana/Vine  
**Sa=** Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>...</u>			10. <u>...</u>		
2. <u>...</u>			11. <u>...</u>		
3. <u>...</u>			12. <u>...</u>		
4. <u>...</u>			13. <u>...</u>		
5. <u>...</u>			14. <u>...</u>		
6. <u>...</u>			15. <u>...</u>		
7. <u>...</u>			16. <u>...</u>		
8. <u>...</u>			17. <u>...</u>		
9. <u>...</u>			18. <u>...</u>		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>6/9</u> <u>6-7</u>		
Remarks:					

Transect ID: D Plot ID: 24

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

**SOILS**

Map Unit Name (Series and Phase): <u>Osprey silt loam, 0-3% slope</u>		Drainage Class: <u>Sw Poor</u>			
Taxonomy (Subgroup): <u>Acric Podzol</u>		Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>10YR 3/2</u>	<u>-</u>	<u>-</u>	<u>s.l/loam</u>
<u>6-10</u>	<u>B<sub>1</sub></u>	<u>2.5Y 3/3</u>	<u>2.5Y 3/3</u>	<u>20% Faint</u>	<u>2.5Y 3/3</u>
			<u>2.5Y 3/3</u>	<u>5% Distinct</u>	
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	No	(circle)	Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes	No		
Hydric Soils Present?	Yes	No		
Remarks:				

W11C06a

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

Project/Site: <u>5220 Camp Road</u>		Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>		Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>		County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?	<u>Yes</u> / No	Community ID:
Is the site significantly disturbed (Atypical Situation)?	Yes / <u>No</u>	
Is the area a potential Problem Area?	Yes / <u>No</u>	Transect ID: <u>D</u>
(If needed, explain on reverse)		Plot ID: <u>204</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Lianna/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Sparganium angustifolium</u>	<u>Sh</u>	<u>FAC</u>	10.		
2. <u>Sparganium angustifolium</u>	<u>Sh</u>	<u>FAC</u>	11.		
3. <u>Sparganium angustifolium</u>	<u>T</u>	<u>FAC</u>	12.		
4. <u>Sparganium angustifolium</u>	<u>T</u>	<u>FAC</u>	13.		
5.			14.		
6.			15.		
7.			16.		
8.			17.		
9.			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>24</u>	<u>50%</u>	
Remarks:					

Transect ID: D	Plot ID: 25
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### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: NONE (in.) Depth to Free Water in Pit: NONE (in.) Depth to Saturated Soil: NONE (in.)	
Remarks:	

### SOILS

Map Unit Name: (Series and Phase): <u>Orpark Silty Clay loam, 0-3% slopes</u>	Drainage Class: <u>SW Pool</u>																								
Taxonomy (Subgroup): <u>Arlic Epipedon</u>	Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																								
<b>Profile Description:</b>																									
<table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Munsell Moist)</th> <th>Mottle Colors (Munsell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-6</td> <td>A</td> <td>10YR 2/2</td> <td>-</td> <td>-</td> <td>5:3/LL</td> </tr> <tr> <td>6-10</td> <td>Bw</td> <td>2.5Y 5/3</td> <td>2.5Y 5/2</td> <td>20% faint</td> <td>5:1/LLK</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2.5Y 5/1</td> <td>10% Distinct</td> <td></td> </tr> </tbody> </table>	Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-6	A	10YR 2/2	-	-	5:3/LL	6-10	Bw	2.5Y 5/3	2.5Y 5/2	20% faint	5:1/LLK				2.5Y 5/1	10% Distinct		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																				
0-6	A	10YR 2/2	-	-	5:3/LL																				
6-10	Bw	2.5Y 5/3	2.5Y 5/2	20% faint	5:1/LLK																				
			2.5Y 5/1	10% Distinct																					
<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)																							
Remarks:																									

### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No (circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	
Remarks:			

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)?    Yes <input type="radio"/> No	Transect ID: <u>D</u>
Is the area a potential Problem Area?                      Yes <input type="radio"/> No	Plot ID: <u>012</u>
(If needed, explain on reverse)	

**H=** Herbaceous      **Tr=** Tree  
**Sh=** Shrub            **L=** Liana/ Vine  
**Sa=** Sapling

**VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Panicum capillare</u>	<u>S</u>	<u>1</u>	10.		
2. <u>Panicum capillare</u>	<u>S</u>	<u>1</u>	11.		
3. <u>Panicum capillare</u>	<u>S</u>	<u>1</u>	12.		
4. <u>Panicum capillare</u>	<u>S</u>	<u>1</u>	13.		
5. <u>Panicum capillare</u>	<u>T</u>	<u>1</u>	14.		
6. <u>Panicum capillare</u>	<u>T</u>	<u>1</u>	15.		
7. <u>Panicum capillare</u>	<u>T</u>	<u>1</u>	16.		
8. <u>Panicum capillare</u>	<u>T</u>	<u>1</u>	17.		
9. <u>Panicum capillare</u>	<u>T</u>	<u>1</u>	18.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)      3/9      33%

Remarks: Open field

Transect ID: D	Plot ID: 26
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### HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

### SOILS

<p>Map Unit Name (Series and Phase): <u>0-3'k Silty Clay loam, 0-5'k Slope</u></p>		<p>Drainage Class: <u>Sw Poor</u></p>																								
<p>Taxonomy (Subgroup): <u>Auic epipedon</u></p>		<p>Field Observations</p> <p>Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No</p>																								
<p>Profile Description:</p> <table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Muncell Moist)</th> <th>Mottle Colors (Muncell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td><u>0-6</u></td> <td><u>A</u></td> <td><u>10Y7/2</u></td> <td><u>—</u></td> <td><u>—</u></td> <td><u>silty</u></td> </tr> <tr> <td><u>6-10</u></td> <td><u>Bt</u></td> <td><u>2.5Y7/2</u></td> <td><u>2.5Y7/2</u></td> <td><u>15% (faint)</u></td> <td><u>silty/clay</u></td> </tr> <tr> <td><u>—</u></td> <td><u>—</u></td> <td><u>—</u></td> <td><u>2.5Y7/2</u></td> <td><u>25% (faint)</u></td> <td><u>—</u></td> </tr> </tbody> </table>			Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	<u>0-6</u>	<u>A</u>	<u>10Y7/2</u>	<u>—</u>	<u>—</u>	<u>silty</u>	<u>6-10</u>	<u>Bt</u>	<u>2.5Y7/2</u>	<u>2.5Y7/2</u>	<u>15% (faint)</u>	<u>silty/clay</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>2.5Y7/2</u>	<u>25% (faint)</u>	<u>—</u>
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																					
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<u>6-10</u>	<u>Bt</u>	<u>2.5Y7/2</u>	<u>2.5Y7/2</u>	<u>15% (faint)</u>	<u>silty/clay</u>																					
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<p>Hydric Soil Indicators:</p> <table border="0"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>			<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)												
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<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																									
<p>Remarks:</p>																										

### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(circle)	<p>Is this Sampling Point Within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/></p>
Wetland Hydrology Present?	Yes	No	(circle)	
Hydric Soils Present?	Yes	No	(circle)	
<p>Remarks:</p>				

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes    No	Community ID:
Is the site significantly disturbed (Atypical Situation)?    Yes    No	Transect ID: <u>D</u>
Is the area a potential Problem Area?                      Yes    No	Plot ID: <u>37</u>
(If needed, explain on reverse)	

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Lianna/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Panicum capillare</u>		<u>FAC</u>	10.		
2. <u>Lactuca scariola</u>		<u>FAC</u>	11.		
3. <u>Aster multiflorus</u>		<u>FAC</u>	12.		
4. <u>Fragaria virginiana</u>		<u>FAC</u>	13.		
5. <u>Sida acuta</u>		<u>FAC</u>	14.		
6. <u>Sida acuta</u>		<u>FAC</u>	15.		
7. <u>Sida acuta</u>		<u>FAC</u>	16.		
8. <u>Trifolium repens</u>		<u>FAC</u>	17.		
9.			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>5/a</u>		
Remarks:					

Transect ID: D	Plot ID: 27
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### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

### SOILS

Map Unit Name (Series and Phase): <u>Orpach Silty Clay loam, 0-3% slopes</u>	Drainage Class: <u>low Per</u> Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Taxonomy (Subgroup): <u>Alic Apiaquept</u>					
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-7	A	1.5YR 3/2	-	-	S/V/GC
7-10	B <sub>11</sub>	2.5Y 5/3	2.5Y 5/2	30% Faint	S, V/SN
			2.5Y 5/2	20% Disrupt	
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors			<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)		
Remarks:					

### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	<input checked="" type="radio"/> No (circle)	Is this Sampling Point Within a Wetland?	Yes	<input checked="" type="radio"/> No
Wetland Hydrology Present?	Yes	<input checked="" type="radio"/> No			
Hydric Soils Present?	Yes	<input checked="" type="radio"/> No			
Remarks:					

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the area a potential Problem Area? <input checked="" type="radio"/> Yes <input type="radio"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>38</u>

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sap= Sapling

**VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>...</u>			10. <u>...</u>		
2. <u>...</u>			11. <u>...</u>		
3. <u>...</u>			12. <u>...</u>		
4. <u>...</u>			13. <u>...</u>		
5. <u>...</u>			14. <u>...</u>		
6. <u>...</u>			15. <u>...</u>		
7. <u>...</u>			16. <u>...</u>		
8. <u>...</u>			17. <u>...</u>		
9. <u>...</u>			18. <u>...</u>		

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

5/9      65%

Remarks:

Transect ID: D Plot ID: 28

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input checked="" type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input checked="" type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>Oriskany silt clay loam, 0-5% slopes</u></p>		<p>Drainage Class: <u>SW Pool</u></p>																									
<p>Taxonomy (Subgroup): <u>Aeric epiaquept</u></p>		<p>Field Observations Confirm Mapped Type? Yes <input checked="" type="radio"/> No <input type="radio"/></p>																									
<p>Profile Description:</p> <table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Muncell Moist)</th> <th>Mottle Colors (Muncell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-6</td> <td>A</td> <td>2.5Y 3/2</td> <td>—</td> <td>—</td> <td>Silt loam</td> </tr> <tr> <td>6-10</td> <td>B<sub>g</sub></td> <td>2.5Y 5/2</td> <td>2.5Y 5/8</td> <td>20% dispersed</td> <td>1/100K</td> </tr> <tr> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>				Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-6	A	2.5Y 3/2	—	—	Silt loam	6-10	B <sub>g</sub>	2.5Y 5/2	2.5Y 5/8	20% dispersed	1/100K	—	—	—	—	—	—
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																						
0-6	A	2.5Y 3/2	—	—	Silt loam																						
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—	—	—	—	—	—																						
<p>Hydric Soil Indicators:</p> <table border="0"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input checked="" type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>				<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)												
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<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																										
<p>Remarks: <u>ACTUAL Unit identified as Patch - silt loam</u></p>																											

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	(circle)	Is this Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Hydric Soils Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
<p>Remarks:</p>				

W11C06a

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	<u>BECAUSE OF THE DISTURBANCE</u>
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>1</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Lianna/ Vine  
 Sp= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Cyperus sp.</u>		<u>Sp</u>	10. <u>Trichostema sp.</u>		<u>Tr</u>
2. <u>Cyperus sp.</u>		<u>Sp</u>	11.		
3. <u>Cyperus sp.</u>		<u>Sp</u>	12.		
4. <u>Cyperus sp.</u>		<u>Sp</u>	13.		
5. <u>Cyperus sp.</u>		<u>Sp</u>	14.		
6. <u>Cyperus sp.</u>		<u>Sp</u>	15.		
7. <u>Cyperus sp.</u>		<u>Sp</u>	16.		
8. <u>Cyperus sp.</u>		<u>Sp</u>	17.		
9. <u>Cyperus sp.</u>		<u>Sp</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>2%</u>		<u>20%</u>
Remarks:					

Transect ID: D	Plot ID: 29
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### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

### SOILS

Map Unit Name (Series and Phase): <u>OLIVER Silty clay loam, 0-3/6</u> <sup>4/6pp</sup>	Drainage Class: <u>SW poor</u> Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
Taxonomy (Subgroup): <u>Aric Epiaquef</u>					
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	2.5Y 3/2	—	—	silty
6-10	B <sub>10</sub>	2.5Y 5/4	2.5Y 5/2	20% faint	1/1500
			2.5Y 5/6	20% faint	
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present?	Yes	No		
Hydric Soils Present?	Yes	No		
Remarks:				



Transect ID: D Plot ID: 30

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

**SOILS**

Map Unit Name (Series and Phase): <u>Orpark S.14v Clay loam, 0-3% slopes</u>		Drainage Class: <u>SW Pool</u>			
Taxonomy (Subgroup): <u>Acric epiaquet</u>		Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-5</u>	<u>A</u>	<u>2.5Y 5/2</u>	<u>-</u>	<u>-</u>	<u>S/GK</u>
<u>5-10</u>	<u>Bw</u>	<u>2.5Y 5/4</u>	<u>2.5Y 5/6</u>	<u>15% faint</u>	<u>SAL/SBE</u>
			<u>2.5Y 5/2</u>	<u>15% faint</u>	
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soils Present?	Yes	<input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks:			

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Community ID: _____
Is the site significantly disturbed (Atypical Situation)?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Transect ID: <u>D</u>
Is the area a potential Problem Area?      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Plot ID: <u>31</u>
(If needed, explain on reverse)	

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub      L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Panicum capillare</u>	<u>T</u>	<u>100</u>	10. _____		
2. <u>Panicum capillare</u>	<u>T</u>	<u>100</u>	11. _____		
3. <u>Panicum capillare</u>	<u>T</u>	<u>100</u>	12. _____		
4. <u>Panicum capillare</u>	<u>T</u>	<u>100</u>	13. _____		
5. <u>Panicum capillare</u>	<u>T</u>	<u>100</u>	14. _____		
6. <u>Panicum capillare</u>	<u>T</u>	<u>100</u>	15. _____		
7. <u>Panicum capillare</u>	<u>T</u>	<u>100</u>	16. _____		
8. <u>Panicum capillare</u>	<u>T</u>	<u>100</u>	17. _____		
9. <u>Panicum capillare</u>	<u>T</u>	<u>100</u>	18. _____		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>34</u>		
Remarks:					

Transect ID: D Plot ID: 31

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>Patchon Silt loam</u></p> <p>Taxonomy (Subgroup): <u>Acric Podsol</u></p>	<p>Drainage Class: <u>Poor</u></p> <p>Field Observations</p> <p>Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>																								
<p>Profile Description:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Depth (inches)</th> <th style="width: 10%;">Horizon</th> <th style="width: 15%;">Matrix Color (Muncell Moist)</th> <th style="width: 15%;">Mottle Colors (Muncell Moist)</th> <th style="width: 15%;">Mottle Abundance/Contrast</th> <th style="width: 35%;">Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-6</td> <td>A</td> <td>10YR<sup>2</sup>/2</td> <td>—</td> <td>—</td> <td>shil/br</td> </tr> <tr> <td>6-10</td> <td>Bw</td> <td>10YR<sup>2</sup>/4</td> <td>—</td> <td>—</td> <td>vshil/lsbk</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-6	A	10YR <sup>2</sup> /2	—	—	shil/br	6-10	Bw	10YR <sup>2</sup> /4	—	—	vshil/lsbk						
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																				
0-6	A	10YR <sup>2</sup> /2	—	—	shil/br																				
6-10	Bw	10YR <sup>2</sup> /4	—	—	vshil/lsbk																				
<p>Hydric Soil Indicators:</p> <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><input type="checkbox"/> Histosol</p> <p><input type="checkbox"/> Histic Epipedon</p> <p><input type="checkbox"/> Sulfidic Odor</p> <p><input type="checkbox"/> Aquic Moisture Regime</p> <p><input type="checkbox"/> Reducing Conditions</p> <p><input type="checkbox"/> Gleyed or Low-Chroma Colors</p> </td> <td style="width: 50%; vertical-align: top;"> <p><input type="checkbox"/> Concretions</p> <p><input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils</p> <p><input type="checkbox"/> Organic Streaking in Sandy Soils</p> <p><input type="checkbox"/> Listed on Local Hydric Soils List</p> <p><input type="checkbox"/> Listed on National Hydric Soils List</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> </td> </tr> </table>		<p><input type="checkbox"/> Histosol</p> <p><input type="checkbox"/> Histic Epipedon</p> <p><input type="checkbox"/> Sulfidic Odor</p> <p><input type="checkbox"/> Aquic Moisture Regime</p> <p><input type="checkbox"/> Reducing Conditions</p> <p><input type="checkbox"/> Gleyed or Low-Chroma Colors</p>	<p><input type="checkbox"/> Concretions</p> <p><input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils</p> <p><input type="checkbox"/> Organic Streaking in Sandy Soils</p> <p><input type="checkbox"/> Listed on Local Hydric Soils List</p> <p><input type="checkbox"/> Listed on National Hydric Soils List</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>																						
<p><input type="checkbox"/> Histosol</p> <p><input type="checkbox"/> Histic Epipedon</p> <p><input type="checkbox"/> Sulfidic Odor</p> <p><input type="checkbox"/> Aquic Moisture Regime</p> <p><input type="checkbox"/> Reducing Conditions</p> <p><input type="checkbox"/> Gleyed or Low-Chroma Colors</p>	<p><input type="checkbox"/> Concretions</p> <p><input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils</p> <p><input type="checkbox"/> Organic Streaking in Sandy Soils</p> <p><input type="checkbox"/> Listed on Local Hydric Soils List</p> <p><input type="checkbox"/> Listed on National Hydric Soils List</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>																								
<p>Remarks:</p> <p><u>Actual unit identified: Blackish Gray Silt loam</u></p>																									

**WETLAND DETERMINATION**

<p>Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (circle)</p> <p>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>Is this Sampling Point Within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>Remarks:</p>	

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

Project/Site: 5220 Camp Road	Date: August 22, 2006
Applicant/Owner: Benderson Development Company	Town: Hamburg
Investigators: Scott Livingstone & Travis Morse	County: Erie State: New York
Do Normal Circumstances Exist on the site? Yes No	Community ID:
Is the site significantly disturbed (Atypical Situation)? Yes No	Transect ID: D
Is the area a potential Problem Area? Yes No	Plot ID: 33
(If needed, explain on reverse)	

**VEGETATION**

H= Herbaceous      T= Tree  
 Sh= Shrub        L= Liana/ Vine  
 S= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Taxus canadensis</i>		✓	10. <i>Allium tricoccum</i>	H	FACU+
2. <i>Asplenium platyneuron</i>	SA	FACU	11.		
3. <i>Fragaria virginiana</i>		L	12.		
4. <i>Thalictrum flavum</i>		S	13.		
5. <i>Asplenium platyneuron</i>	T	FACU	14.		
6. <i>Fragaria virginiana</i>	T	FAC	15.		
7. <i>Thalictrum flavum</i>	T	FACU	16.		
8. <i>Corydalis</i>	T	FACU	17.		
9. <i>Taxus canadensis</i>	T	FACU	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			5/10	50%	
Remarks: raccoon tracks					

Transect ID: D Plot ID: 32

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>ALONG</u> (in.)	
<b>Remarks:</b>	

**SOILS**

Map Unit Name (Series and Phase): <u>Patchina Silty loam</u>		Drainage Class: <u>Poor</u>			
Taxonomy (Subgroup): <u>Aeric Endoaquif</u>		Field Observations Confirm Mapped Type? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	10YR 2/2	—	—	Silt/loam
6-10	B <sub>ws</sub>	2.5Y 5/4	2.5Y 5/2	20% Faint	Silt/loam/250K
			2.5Y 5/6	10% Faint	
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
<b>Remarks:</b> <u>Actual vert identified. organic silty clay loam</u>					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	No <input checked="" type="checkbox"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes	No <input checked="" type="checkbox"/>	
Hydric Soils Present?	Yes	No <input type="checkbox"/>	
<b>Remarks:</b>			

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <u>Yes</u> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <u>Yes</u> No	Transect ID: <u>D</u>
Is the area a potential Problem Area? <u>Yes</u> No	Plot ID: <u>83</u>
(If needed, explain on reverse)	

**VEGETATION**

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Desmodium illinoense</u>	<u>H</u>	<u>FACW</u>	10.		
2. <u>...</u>			11.		
3. <u>...</u>			12.		
4. <u>...</u>			13.		
5. <u>...</u>	<u>T</u>		14.		
6. <u>...</u>	<u>T</u>		15.		
7. <u>...</u>	<u>T</u>		16.		
8. <u>...</u>	<u>T</u>		17.		
9.			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>25%</u>	<u>25%</u>	
Remarks:					

Transect ID: D	Plot ID: 33
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### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

### SOILS

Map Unit Name (Series and Phase): <u>Patch 9.14 loam</u>		Drainage Class: <u>Pool</u>			
Taxonomy (Subgroup): <u>AERIC Endoaquips</u>		Field Observations Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No			
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-5	A	2.5Y 3/2	-	-	S-1/6R
5-10	Bw	2.5Y 5/2	2.5Y 5/6	10% Dried out	S-1/5BR
			2.5Y 3/2	20% Fe-ox	
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors			<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)		
Remarks: <u>Actual unit identified: orthic silty clay loam</u>					

### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	<input checked="" type="checkbox"/> No	(circle)
Wetland Hydrology Present?	Yes	<input checked="" type="checkbox"/> No	
Hydric Soils Present?	Yes	<input checked="" type="checkbox"/> No	
Is this Sampling Point Within a Wetland?			Yes <input checked="" type="checkbox"/> No
Remarks:			

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Community ID:
Is the site significantly disturbed (Atypical Situation)? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Transect ID: <u>D</u>
Is the area a potential Problem Area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Plot ID: <u>31</u>
(If needed, explain on reverse)	

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

**VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Phragmites communis</u>		<u>T</u>	10. <u>Typha latifolia</u>		<u>T</u>
2. <u>Typha latifolia</u>		<u>FAC</u>	11. <u>Phragmites communis</u>		<u>T</u>
3. <u>Phragmites communis</u>		<u>FAC</u>	12.		
4.			13.		
5.			14.		
6.			15.		
7.			16.		
8.			17.		
9.			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>5%</u>		
Remarks: <u>at 5220 Camp Road</u>					

Transect ID: D Plot ID: 34

**HYDROLOGY**

<p>___ Recorded Data (Describe in Remarks)</p> <p>___ Stream, Lake or Tide Gauge</p> <p>___ Aerial Photographs</p> <p>___ Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p>___ Inundated</p> <p>___ Saturated in Upper 12 Inches</p> <p>___ Water Marks</p> <p>___ Drift Lines</p> <p>___ Sediment Deposits</p> <p>___ Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p>___ Oxidized Root Channels in Upper 12"</p> <p>___ Water-stained Leaves</p> <p>___ Local Soil Survey Data</p> <p>___ FAC-Neutral Test</p> <p>___ Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>Patchon silt loam</u></p>		<p>Drainage Class: <u>Poor</u></p>																									
<p>Taxonomy (Subgroup): <u>Alic Entisol</u></p>		<p>Field Observations</p> <p>Confirm Mapped Type? Yes <input checked="" type="radio"/> No</p>																									
<p><u>Profile Description:</u></p> <table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Muncell Moist)</th> <th>Mottle Colors (Muncell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td><u>0-6</u></td> <td><u>A1</u></td> <td><u>2.5Y 7/2</u></td> <td><u>-</u></td> <td><u>-</u></td> <td><u>Silt loam</u></td> </tr> <tr> <td><u>6-12</u></td> <td><u>Bw1</u></td> <td><u>2.5Y 7/3</u></td> <td><u>2.5Y 7/6</u></td> <td><u>20% Distinct</u></td> <td><u>Stratified silt loam</u></td> </tr> <tr> <td></td> <td></td> <td></td> <td><u>2.5Y 7/2</u></td> <td><u>30% R<sub>h</sub></u></td> <td></td> </tr> </tbody> </table>				Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	<u>0-6</u>	<u>A1</u>	<u>2.5Y 7/2</u>	<u>-</u>	<u>-</u>	<u>Silt loam</u>	<u>6-12</u>	<u>Bw1</u>	<u>2.5Y 7/3</u>	<u>2.5Y 7/6</u>	<u>20% Distinct</u>	<u>Stratified silt loam</u>				<u>2.5Y 7/2</u>	<u>30% R<sub>h</sub></u>	
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																						
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<u>6-12</u>	<u>Bw1</u>	<u>2.5Y 7/3</u>	<u>2.5Y 7/6</u>	<u>20% Distinct</u>	<u>Stratified silt loam</u>																						
			<u>2.5Y 7/2</u>	<u>30% R<sub>h</sub></u>																							
<p>Hydric Soil Indicators:</p> <table border="0"> <tr> <td>___ Histosol</td> <td>___ Concretions</td> </tr> <tr> <td>___ Histic Epipedon</td> <td>___ High Organic Content in Surface Layer Sandy Soils</td> </tr> <tr> <td>___ Sulfidic Odor</td> <td>___ Organic Streaking in Sandy Soils</td> </tr> <tr> <td>___ Aquic Moisture Regime</td> <td>___ Listed on Local Hydric Soils List</td> </tr> <tr> <td>___ Reducing Conditions</td> <td>___ Listed on National Hydric Soils List</td> </tr> <tr> <td>___ Gleyed or Low-Chroma Colors</td> <td>___ Other (Explain in Remarks)</td> </tr> </table>				___ Histosol	___ Concretions	___ Histic Epipedon	___ High Organic Content in Surface Layer Sandy Soils	___ Sulfidic Odor	___ Organic Streaking in Sandy Soils	___ Aquic Moisture Regime	___ Listed on Local Hydric Soils List	___ Reducing Conditions	___ Listed on National Hydric Soils List	___ Gleyed or Low-Chroma Colors	___ Other (Explain in Remarks)												
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___ Histic Epipedon	___ High Organic Content in Surface Layer Sandy Soils																										
___ Sulfidic Odor	___ Organic Streaking in Sandy Soils																										
___ Aquic Moisture Regime	___ Listed on Local Hydric Soils List																										
___ Reducing Conditions	___ Listed on National Hydric Soils List																										
___ Gleyed or Low-Chroma Colors	___ Other (Explain in Remarks)																										
<p>Remarks:</p> <p><u>Actual unit identified: Osprey silt clay loam</u></p>																											

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes <input type="radio"/> No <input checked="" type="radio"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
Hydric Soils Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
<p>Remarks:</p>		

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>5</u>

**VEGETATION**

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Sparganium angustifolium</u>			10. <u>Sparganium angustifolium</u>		
2. <u>Sparganium angustifolium</u>			11. <u>Sparganium angustifolium</u>		
3. <u>Sparganium angustifolium</u>			12. <u>Sparganium angustifolium</u>		
4. <u>Sparganium angustifolium</u>			13. <u>Sparganium angustifolium</u>		
5. <u>Sparganium angustifolium</u>			14. <u>Sparganium angustifolium</u>		
6. <u>Sparganium angustifolium</u>			15. <u>Sparganium angustifolium</u>		
7. <u>Sparganium angustifolium</u>			16. <u>Sparganium angustifolium</u>		
8. <u>Sparganium angustifolium</u>			17. <u>Sparganium angustifolium</u>		
9. <u>Sparganium angustifolium</u>			18. <u>Sparganium angustifolium</u>		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>5%</u>		
Remarks: <u>Sparganium angustifolium</u>					

Transect ID: D	Plot ID: 35
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### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
<b>Remarks:</b>	

### SOILS

Map Unit Name (Series and Phase): <u>DIPUE S. Hy Clay loam, 0-5% slopes</u>	Drainage Class: <u>SW POOL</u>																								
Taxonomy (Subgroup): <u>AHIC PDISUFT</u>	Field Observations Confirm Mapped Type? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																								
<b>Profile Description:</b>																									
<table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Muncell Moist)</th> <th>Mottle Colors (Muncell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-4"</td> <td>E11</td> <td>10YR 1/2</td> <td>—</td> <td>—</td> <td>EXSH soil</td> </tr> <tr> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </tbody> </table>	Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-4"	E11	10YR 1/2	—	—	EXSH soil	—	—	—	—	—	—	—	—	—	—	—	—	
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																				
0-4"	E11	10YR 1/2	—	—	EXSH soil																				
—	—	—	—	—	—																				
—	—	—	—	—	—																				
<b>Hydric Soil Indicators:</b>																									
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)																								
<b>Remarks:</b> <u>APPEARS TO BE FILL FROM SEWER LINE; unable to cover below 4'</u>																									

### WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Remarks:</b>	

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input type="radio"/> Yes <input checked="" type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	<u>6420000000</u>
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>36</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Lianna/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Rubus</u>	<u>T</u>	<u>100</u>	10. <u>Rubus</u>	<u>T</u>	<u>100</u>
2. <u>Cornus</u>	<u>T</u>	<u>100</u>	11.		
3. <u>Rubus</u>	<u>T</u>	<u>100</u>	12.		
4. <u>Rubus</u>	<u>T</u>	<u>100</u>	13.		
5. <u>Rubus</u>	<u>T</u>	<u>100</u>	14.		
6. <u>Rubus</u>	<u>T</u>	<u>100</u>	15.		
7. <u>Rubus</u>	<u>T</u>	<u>100</u>	16.		
8. <u>Rubus</u>	<u>T</u>	<u>100</u>	17.		
9. <u>Rubus</u>	<u>T</u>	<u>100</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>30</u>	<u>40%</u>	
Remarks:					

Transect ID: D

Plot ID: 36

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

**SOILS**

Map Unit Name (Series and Phase): <u>OTPAK S. HV Clay loam, 0-5% slopes</u>	Drainage Class: <u>Low Pool</u>				
Taxonomy (Subgroup): <u>AECc OPhaseH</u>	Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No				
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-4	A	2.5Y 7/2	—	—	Silt/clay
4-10	B <sub>ws</sub>	2.5Y 5/4	2.5Y 5/2	25% Faint	shaly/clay
—	—	—	2.5Y 5/6	20% Distinct	—
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions				
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils				
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils				
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List				
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List				
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)				
Remarks:					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	<input checked="" type="radio"/> No (circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No
Wetland Hydrology Present?	Yes	<input checked="" type="radio"/> No	
Hydric Soils Present?	Yes	<input checked="" type="radio"/> No	
Remarks:			

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

Project/Site: <u>5220 Camp Road</u>		Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>		Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>		County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)?	<input type="radio"/> Yes <input checked="" type="radio"/> No	<u>PERMANENT WETLANDS</u>
Is the area a potential Problem Area?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)		Plot ID: <u>10</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Galium aparine</u>	<u>H</u>	<u>SA</u>	10.		
2. <u>Lythrum hyssagifolium</u>	<u>H</u>	<u>SA</u>	11.		
3. <u>Aster multiflorus</u>	<u>H</u>	<u>SA</u>	12.		
4. <u>Trifolium repens</u>	<u>H</u>	<u>SA</u>	13.		
5. <u>Eragrostis canadensis</u>	<u>T</u>	<u>FAC</u>	14.		
6. <u>Phragmites australis</u>	<u>T</u>	<u>FACW</u>	15.		
7. <u>Trifolium pratense</u>	<u>T</u>	<u>TR</u>	16.		
8. <u>Trifolium repens</u>	<u>T</u>	<u>TR</u>	17.		
9.			18.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-) 4/8 50%

Remarks:

Transect ID: D Plot ID: 37

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

**SOILS**

Map Unit Name (Series and Phase): <u>OTPAK Silty Clay 100m, 0-5% slope</u>		Drainage Class: <u>FW Pool</u>			
Taxonomy (Subgroup): <u>ADIC epiaquert</u>		Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-4</u>	<u>A</u>	<u>2.5Y 7/2</u>			<u>silty cl</u>
<u>4-10</u>	<u>Bu</u>	<u>2.5Y 7/2</u>	<u>2.5Y 7/2</u>	<u>30% Faint</u>	<u>silty clay</u>
			<u>10Y 6/6</u>	<u>10% Dark</u>	
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors			<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)		
Remarks:					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	<input checked="" type="radio"/> No	(circle)	Is this Sampling Point Within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present?	Yes	<input checked="" type="radio"/> No		
Hydric Soils Present?	Yes	<input checked="" type="radio"/> No		
Remarks:				

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

Project/Site: <u>5220 Camp Road</u>		Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>		Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>		County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<u>Eastview @ 5220 Camp Rd</u>
Is the area a potential Problem Area?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)		Plot ID: <u>2.8</u>

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Lianna/ Vine  
 Sa= Sapling

**VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Typha latifolia</u>		<u>3</u>	10.		
2. <u>Sagittaria arifolia</u>		<u>3</u>	11.		
3. <u>Potamogeton amplifolius</u>		<u>3</u>	12.		
4. <u>Sparganium angustifolium</u>		<u>3</u>	13.		
5. <u>Typha latifolia</u>		<u>3</u>	14.		
6. <u>Sagittaria arifolia</u>		<u>3</u>	15.		
7. <u>Potamogeton amplifolius</u>		<u>3</u>	16.		
8. <u>Sagittaria arifolia</u>		<u>3</u>	17.		
9.			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>1/8</u>	<u>75%</u>	
Remarks: <u>2-10-06</u>					

Transect ID: D Plot ID: 33

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>None</u> (in.)</p> <p>Depth to Free Water in Pit: <u>None</u> (in.)</p> <p>Depth to Saturated Soil: <u>None</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>Patuxent silt loam</u></p> <p>Taxonomy (Subgroup): <u>Acric orthoxcept</u></p>	<p>Drainage Class: <u>Poor</u></p> <p>Field Observations</p> <p>Confirm Mapped Type? Yes <input checked="" type="radio"/> No <input type="radio"/></p>																								
<p>Profile Description:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">Depth (inches)</th> <th style="width:10%;">Horizon</th> <th style="width:15%;">Matrix Color (Munsell Moist)</th> <th style="width:15%;">Mottle Colors (Munsell Moist)</th> <th style="width:15%;">Mottle Abundance/Contrast</th> <th style="width:25%;">Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-5</td> <td>A</td> <td>10YR 2/6</td> <td>-</td> <td>-</td> <td>silty/cl</td> </tr> <tr> <td>5-10</td> <td>Bw</td> <td>2.5Y 4/4</td> <td>2.5Y 4/6</td> <td>10% Faint</td> <td>silty/cl</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2.5Y 5/6</td> <td>10% Faint</td> <td></td> </tr> </tbody> </table>		Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-5	A	10YR 2/6	-	-	silty/cl	5-10	Bw	2.5Y 4/4	2.5Y 4/6	10% Faint	silty/cl				2.5Y 5/6	10% Faint	
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5-10	Bw	2.5Y 4/4	2.5Y 4/6	10% Faint	silty/cl																				
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<p>Remarks:</p> <p><u>Actual unit identified = Orpank silt loam clay loam</u></p>																									

**WETLAND DETERMINATION**

<p>Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> (circle)</p> <p>Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> (circle)</p> <p>Hydric Soils Present? Yes <input checked="" type="radio"/> No <input type="radio"/> (circle)</p>	<p>Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/> (circle)</p>
<p>Remarks:</p>	

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>15000 ft<sup>2</sup> - 1000 ft<sup>2</sup> - 1000 ft<sup>2</sup></u>
Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>37</u>

**VEGETATION**

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Asclepias tuberosa</u>	<u>S</u>	<u>T</u>	10.		
2. <u>Asclepias tuberosa</u>	<u>S</u>	<u>T</u>	11.		
3. <u>Asclepias tuberosa</u>	<u>S</u>	<u>T</u>	12.		
4. <u>Asclepias tuberosa</u>	<u>S</u>	<u>T</u>	13.		
5. <u>Asclepias tuberosa</u>	<u>S</u>	<u>T</u>	14.		
6. <u>Asclepias tuberosa</u>	<u>S</u>	<u>T</u>	15.		
7. <u>Asclepias tuberosa</u>	<u>S</u>	<u>T</u>	16.		
8. <u>Asclepias tuberosa</u>	<u>S</u>	<u>T</u>	17.		
9.			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>2/3</u>		<u>25%</u>
Remarks:					

Transect ID: D Plot ID: 39

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>Patch - silt loam</u></p> <p>Taxonomy (Subgroup): <u>Alfic endoglept</u></p>	<p>Drainage Class: <u>Poor</u></p> <p>Field Observations</p> <p>Confirm Mapped Type? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>																								
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<p>Remarks: <u>Actual unit identified: Oripark Silty Clay loam</u></p>																									

**WETLAND DETERMINATION**

<p>Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (circle)</p> <p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks:</p>	

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>August 22, 2006</u>
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Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	<u>BLW - 100% FAC</u>
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>110</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sap= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>M. ...</u>			10. <u>C. ...</u>		
2. <u>T. ...</u>			11.		
3. <u>F. ...</u>			12.		
4. <u>T. ...</u>			13.		
5. <u>A. ...</u>			14.		
6. <u>T. ...</u>			15.		
7. <u>T. ...</u>			16.		
8. <u>T. ...</u>			17.		
9. <u>T. ...</u>			18.		

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

5/10      50%

Remarks:

Transect ID: D Plot ID: 40

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>Black silty clay loam; 0-3% slopes</u></p>		<p>Drainage Class: <u>AW Pool</u></p>																									
<p>Taxonomy (Subgroup): <u>Aeric O paleust</u></p>		<p>Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No</p>																									
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<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																										
<p>Remarks:</p>																											

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	No	(circle)	Is this Sampling Point Within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present?	Yes	No	<input checked="" type="radio"/>	
Hydric Soils Present?	Yes	No	<input checked="" type="radio"/>	
<p>Remarks:</p>				

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Transect ID: <u>D</u>
Is the area a potential Problem Area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain on reverse)	Plot ID: <u>41</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Lianna/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Scirpus americanus</u>	<u>SA</u>	<u>SA</u>	10.		
2. <u>Typha latifolia</u>	<u>SA</u>	<u>SA</u>	11.		
3. <u>Phragmites australis</u>	<u>SA</u>	<u>SA</u>	12.		
4. <u>Sagittaria arifolia</u>	<u>SA</u>	<u>SA</u>	13.		
5. <u>Cyperus tenuis</u>	<u>SA</u>	<u>SA</u>	14.		
6. <u>Typha latifolia</u>	<u>SA</u>	<u>SA</u>	15.		
7. <u>Actinoneuron</u>	<u>SA</u>	<u>SA</u>	16.		
8. <u>Cyperus tenuis</u>	<u>SA</u>	<u>SA</u>	17.		
9.			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-) <u>5/10</u>					
Remarks:					

Transect ID: D Plot ID: 41

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>ADAK Silty Clay loam, 0-5% Slopes</u></p>		<p>Drainage Class: <u>In Pool</u></p>																									
<p>Taxonomy (Subgroup): <u>ARIC P Fluvent</u></p>		<p>Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>																									
<p>Profile Description:</p> <table border="1"> <thead> <tr> <th>Depth (Inches)</th> <th>Horizon</th> <th>Matrix Color (Muncell Moist)</th> <th>Mottle Colors (Muncell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td><u>0-5</u></td> <td><u>A</u></td> <td><u>2.5Y 5/2</u></td> <td><u>—</u></td> <td><u>—</u></td> <td><u>Silt/cl</u></td> </tr> <tr> <td><u>5-10</u></td> <td><u>BE</u></td> <td><u>2.5Y 5/1</u></td> <td><u>2.5Y 5/2</u></td> <td><u>10% faint</u></td> <td><u>shrink/swell</u></td> </tr> <tr> <td><u>—</u></td> <td><u>—</u></td> <td><u>—</u></td> <td><u>2.5Y 5/6</u></td> <td><u>10% faint</u></td> <td><u>—</u></td> </tr> </tbody> </table>				Depth (Inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	<u>0-5</u>	<u>A</u>	<u>2.5Y 5/2</u>	<u>—</u>	<u>—</u>	<u>Silt/cl</u>	<u>5-10</u>	<u>BE</u>	<u>2.5Y 5/1</u>	<u>2.5Y 5/2</u>	<u>10% faint</u>	<u>shrink/swell</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>2.5Y 5/6</u>	<u>10% faint</u>	<u>—</u>
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<p>Remarks:</p>																											

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	No (circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes	No	
Hydric Soils Present?	Yes	No	
<p>Remarks:</p>			

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes   No	Community ID:
Is the site significantly disturbed (Atypical Situation)?    Yes   No	<u>Maple - Beech wood</u> <u>with some forest</u>
Is the area a potential Problem Area?      Yes   No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>11</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sap= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Maple</u>	<u>H</u>	<u>100</u>	10.		
2. <u>Beech</u>	<u>H</u>	<u>100</u>	11.		
3. <u>...</u>	<u>...</u>	<u>...</u>	12.		
4. <u>...</u>	<u>...</u>	<u>...</u>	13.		
5. <u>...</u>	<u>...</u>	<u>...</u>	14.		
6. <u>...</u>	<u>...</u>	<u>...</u>	15.		
7. <u>...</u>	<u>...</u>	<u>...</u>	16.		
8. <u>...</u>	<u>...</u>	<u>...</u>	17.		
9.			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>8</u>	<u>0?</u>	
Remarks:					

Transect ID: D Plot ID: 42

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>OT Park S-Hy Clay loam, 0-3% slopes</u></p>		<p>Drainage Class: <u>Sw Pool</u></p>																											
<p>Taxonomy (Subgroup): <u>Aeric PRDQUEPT</u></p>		<p>Field Observations</p> <p>Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>																											
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<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																												
<p>Remarks:</p>																													

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soils Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<p>Remarks:</p>		

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes   No	Community ID:
Is the site significantly disturbed (Atypical Situation)?    Yes   No	<u>Rich Wooded Swamp</u>
Is the area a potential Problem Area?                      Yes   No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>112</u>

**VEGETATION**

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Liana/ Vine  
 S= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Typha latifolia</u>	<u>H</u>	<u>100%</u>	10.		
2. <u>Sparganium angustifolium</u>	<u>H</u>	<u>A</u>	11.		
3. <u>Lythrum hyssopifolium</u>	<u>H</u>	<u>20%</u>	12.		
4. <u>Scirpus americanus</u>	<u>H</u>	<u>10%</u>	13.		
5. <u>Sagittaria arifolia</u>	<u>H</u>	<u>10%</u>	14.		
6. <u>Sagittaria arifolia</u>	<u>H</u>	<u>10%</u>	15.		
7. <u>Sagittaria arifolia</u>	<u>H</u>	<u>10%</u>	16.		
8. <u>Sagittaria arifolia</u>	<u>H</u>	<u>10%</u>	17.		
9. <u>Sagittaria arifolia</u>	<u>H</u>	<u>10%</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>2/9</u>	<u>22%</u>	
Remarks:					

Transect ID: D

Plot ID: 43

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

**SOILS**

Map Unit Name (Series and Phase): <u>Oispaik 4th Clay loam, 0-3% slopes</u>	Drainage Class: <u>Sw Poor</u>				
Taxonomy (Subgroup): <u>Arid epiacept</u>	Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-2</u>	<u>A</u>	<u>2.5Y 2/2</u>	<u>—</u>	<u>—</u>	<u>silt LR</u>
<u>7-10</u>	<u>Bw</u>	<u>2.5Y 5/4</u>	<u>2.5Y 5/2</u>	<u>15% Faint</u>	<u>silt/clay</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>2.5Y 5/6</u>	<u>15% Faint</u>	<u>—</u>
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Gleyed or Low-Chroma Colors
<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)
Remarks:					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No (circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No	
Hydric Soils Present? Yes <input checked="" type="checkbox"/> No	
Remarks:	

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? Yes <input checked="" type="radio"/> No <input type="radio"/>	Community ID: _____
Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/>	Transect ID: <u>D</u>
Is the area a potential Problem Area? Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>111</u>
(If needed, explain on reverse)	

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

**VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Vernonia</u>	<u>H</u>	<u>3</u>	10. <u>Urtica</u>	<u>H</u>	<u>3</u>
2. <u>Sparganium</u>	<u>H</u>	<u>3</u>	11. <u>Potamogeton</u>	<u>H</u>	<u>3</u>
3. <u>Sparganium</u>	<u>H</u>	<u>3</u>	12. <u>Potamogeton</u>	<u>H</u>	<u>3</u>
4. <u>Sparganium</u>	<u>H</u>	<u>3</u>	13. <u>Potamogeton</u>	<u>H</u>	<u>3</u>
5. <u>Sparganium</u>	<u>H</u>	<u>3</u>	14.		
6. <u>Sparganium</u>	<u>H</u>	<u>3</u>	15.		
7. <u>Sparganium</u>	<u>H</u>	<u>3</u>	16.		
8. <u>Sparganium</u>	<u>H</u>	<u>3</u>	17.		
9. <u>Potamogeton</u>	<u>H</u>	<u>3</u>	18.		

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

12/13      92%

Remarks:

Transect ID: D Plot ID: 44

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input checked="" type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>None</u> (in.)</p> <p>Depth to Free Water in Pit: <u>None</u> (in.)</p> <p>Depth to Saturated Soil: <u>Surface</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>Duck Silt Clay loam, 0-3% slopes</u></p>		<p>Drainage Class: <u>SW POOL</u></p>																									
<p>Taxonomy (Subgroup): <u>Aeric Argosols</u></p>		<p>Field Observations Confirm Mapped Type? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>																									
<p>Profile Description:</p> <table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Munsell Moist)</th> <th>Mottle Colors (Munsell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td><u>0-6</u></td> <td><u>A</u></td> <td><u>10YR 7/6</u></td> <td><u>-</u></td> <td><u>-</u></td> <td><u>fin / GR</u></td> </tr> <tr> <td><u>6-10</u></td> <td><u>B<sub>22</sub></u></td> <td><u>10YR 7/2</u></td> <td><u>10YR 7/6</u></td> <td><u>10% prominent</u></td> <td><u>S / SBK</u></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	<u>0-6</u>	<u>A</u>	<u>10YR 7/6</u>	<u>-</u>	<u>-</u>	<u>fin / GR</u>	<u>6-10</u>	<u>B<sub>22</sub></u>	<u>10YR 7/2</u>	<u>10YR 7/6</u>	<u>10% prominent</u>	<u>S / SBK</u>						
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<u>0-6</u>	<u>A</u>	<u>10YR 7/6</u>	<u>-</u>	<u>-</u>	<u>fin / GR</u>																						
<u>6-10</u>	<u>B<sub>22</sub></u>	<u>10YR 7/2</u>	<u>10YR 7/6</u>	<u>10% prominent</u>	<u>S / SBK</u>																						
<p>Hydric Soil Indicators:</p> <table border="0"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input checked="" type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>				<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)												
<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions																										
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils																										
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils																										
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List																										
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																										
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																										
<p>Remarks: <u>Actual unit identified as Patchier Silt loam</u></p>																											

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Hydric Soils Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
<p>Remarks:</p>		

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

Project/Site: <u>5220 Camp Road</u>		Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>		Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>		County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>	Community ID:
Is the site significantly disturbed (Atypical Situation)?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>	<i>(Note: site is not a wetland)</i>
Is the area a potential Problem Area?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>	Transect ID: <u>D</u>
(If needed, explain on reverse)		Plot ID: <u>45</u>

**VEGETATION**

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Lianna/Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Phragmites australis</i>			10. <i>Typha latifolia</i>		
2. <i>Sagittaria arifolia</i>			11. <i>Sagittaria arifolia</i>		
3. <i>Ostraea edulis</i>			12.		
4. <i>Sparganium angustifolium</i>			13.		
5. <i>Scirpus americanus</i>			14.		
6. <i>Potamogeton amplifolius</i>			15.		
7. <i>Sparganium angustifolium</i>			16.		
8. <i>Potamogeton amplifolius</i>			17.		
9. <i>Sparganium angustifolium</i>			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			11	97%	
Remarks:					

Transect ID: D	Plot ID: 45
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### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

### SOILS

Map Unit Name (Series and Phase): <u>0-10" 5.1% clay loam, 0-5% slopes</u>	Drainage Class: <u>ALW POOR</u>																								
Taxonomy (Subgroup): <u>ARIC PEREGRINE</u>	Field Observations Confirm Mapped Type? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																								
<b>Profile Description:</b>																									
<table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Muncell Moist)</th> <th>Mottle Colors (Muncell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-6</td> <td>A</td> <td>10R 7/2</td> <td>-</td> <td>-</td> <td>sl/lo</td> </tr> <tr> <td>6-10</td> <td>Bw</td> <td>10R 7/4</td> <td>-</td> <td>-</td> <td>sl/lo/150R</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-6	A	10R 7/2	-	-	sl/lo	6-10	Bw	10R 7/4	-	-	sl/lo/150R							
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																				
0-6	A	10R 7/2	-	-	sl/lo																				
6-10	Bw	10R 7/4	-	-	sl/lo/150R																				
<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors <input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)																									
Remarks: <u>Actual Soil identified: Bladell Sandy silt loam</u>																									

### WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks:	

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes    No	Community ID:
Is the site significantly disturbed (Atypical Situation)?    Yes    No	Transect ID: <u>D</u>
Is the area a potential Problem Area?      Yes    No	Plot ID: <u>116</u>
(If needed, explain on reverse)	

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Liana/ Vine  
 S= Sapling

**VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>...</u>			10.		
2. <u>...</u>			11.		
3. <u>...</u>			12.		
4.			13.		
5.			14.		
6.			15.		
7.			16.		
8.			17.		
9.			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>5/2</u>	<u>100%</u>	
Remarks: <u>...</u>					

Transect ID: D	Plot ID: 46
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### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

### SOILS

Map Unit Name (Series and Phase): <u>Orange Hill Clay loam, 0-3% <sup>slts</sup></u>	Drainage Class: <u>SW Poor</u>				
Taxonomy (Subgroup): <u>Ac1c epiaqualf</u>	Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No				
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-5	A	2.5Y 5/2	-	-	silty/cl
5-10	B1	2.5Y 5/4	2.5Y 5/2	20% Fe <sup>+</sup>	spind/442
			2.5Y 5/6	20% Fe <sup>+</sup>	
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Wetland Hydrology Present?	Yes	No		
Hydric Soils Present?	Yes	No		
Remarks:				

W11C06a

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>August 22, 2006</u>
Applicant/Owner: <u>Benderson Development Company</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <u>Yes</u> <u>No</u>	Community ID:
Is the site significantly disturbed (Atypical Situation)? <u>Yes</u> <u>No</u>	<u>Rich mesophytic forest</u>
Is the area a potential Problem Area? <u>Yes</u> <u>No</u>	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>99</u>

**VEGETATION**

H= Herbaceous	Tr= Tree
Sh= Shrub	L= Liana/ Vine
Sa= Sapling	

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Sparganium angustifolium</u>	<u>SH</u>	<u>2</u>	10.		
2. <u>Potamogeton amplifolius</u>	<u>SH</u>	<u>2</u>	11.		
3. <u>Potamogeton amplifolius</u>	<u>SH</u>	<u>2</u>	12.		
4. <u>Potamogeton amplifolius</u>	<u>SH</u>	<u>2</u>	13.		
5. <u>Potamogeton amplifolius</u>	<u>SH</u>	<u>2</u>	14.		
6. <u>Potamogeton amplifolius</u>	<u>SH</u>	<u>2</u>	15.		
7. <u>Potamogeton amplifolius</u>	<u>SH</u>	<u>2</u>	16.		
8. <u>Potamogeton amplifolius</u>	<u>SH</u>	<u>2</u>	17.		
9.			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>46 50%</u>		
Remarks: <u>Sparganium - 20%</u>					

Transect ID: D

Plot ID: 47

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input checked="" type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
<b>Remarks:</b>	

**SOILS**

Map Unit Name (Series and Phase): <u>DRPARK S.MV Clay loam, 0-3% slope</u> Taxonomy (Subgroup): <u>Acric Podzolept</u>	Drainage Class: <u>SW Poor</u> Field Observations: Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No																								
<b>Profile Description:</b>																									
<table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Muncell Moist)</th> <th>Mottle Colors (Muncell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-5</td> <td>A</td> <td>10Y5.7/2</td> <td></td> <td></td> <td>Silt/cl</td> </tr> <tr> <td>5-10</td> <td>B<sub>g</sub></td> <td>10Y5.5/2</td> <td>10Y5.5/2</td> <td>10% Distinct</td> <td>Silt/SEC</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-5	A	10Y5.7/2			Silt/cl	5-10	B <sub>g</sub>	10Y5.5/2	10Y5.5/2	10% Distinct	Silt/SEC							
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																				
0-5	A	10Y5.7/2			Silt/cl																				
5-10	B <sub>g</sub>	10Y5.5/2	10Y5.5/2	10% Distinct	Silt/SEC																				
<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input checked="" type="checkbox"/> Aquic Moisture Regime <input checked="" type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors <input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)																									
<b>Remarks:</b> ACTUAL UNIT IDENTIFIED: Patchy silt loam																									

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (circle) Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is this Sampling Point Within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>Remarks:</b> FACU dominated community	

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes    No	Community ID:
Is the site significantly disturbed (Atypical Situation)?    Yes    No	Transect ID: <u>D</u>
Is the area a potential Problem Area?                      Yes    No	Plot ID: <u>CR</u>
(If needed, explain on reverse)	

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Lianna/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Typha latifolia</u>		<u>III</u>	10. <u>Phragmites</u>	<u>T</u>	<u>III</u>
2. <u>Cyperus</u>		<u>III</u>	11. <u>Cyperus</u>	<u>T</u>	<u>III</u>
3. <u>Sagittaria</u>		<u>III</u>	12. <u>Typha</u>	<u>T</u>	<u>III</u>
4. <u>Cyperus</u>		<u>III</u>	13. <u>Phragmites</u>	<u>T</u>	<u>III</u>
5. <u>Sagittaria</u>		<u>III</u>	14.		
6. <u>Sagittaria</u>		<u>III</u>	15.		
7. <u>Typha</u>		<u>III</u>	16.		
8. <u>Sagittaria</u>		<u>III</u>	17.		
9. <u>Phragmites</u>	<u>T</u>	<u>III</u>	18.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)      3/13      38%

Remarks:

Transect ID: D | Plot ID: 48

**HYDROLOGY**

<p> <input type="checkbox"/> Recorded Data (Describe in Remarks)  <input type="checkbox"/> Stream, Lake or Tide Gauge  <input type="checkbox"/> Aerial Photographs  <input type="checkbox"/> Other  <input checked="" type="checkbox"/> No Recorded Data Available         </p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>Patchin G.H. loam</u></p> <p>Taxonomy (Subgroup): <u>Aeric Endosquept</u></p>	<p>Drainage Class: <u>Poor</u></p> <p>Field Observations</p> <p>Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No</p>																								
<p>Profile Description:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:10%;">Depth (inches)</th> <th style="width:10%;">Horizon</th> <th style="width:15%;">Matrix Color (Muncell Moist)</th> <th style="width:15%;">Mottle Colors (Muncell Moist)</th> <th style="width:15%;">Mottle Abundance/Contrast</th> <th style="width:25%;">Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td><u>0-5</u></td> <td><u>A</u></td> <td><u>2.5Y 3/2</u></td> <td><u>-</u></td> <td><u>-</u></td> <td><u>silty</u></td> </tr> <tr> <td><u>5-10</u></td> <td><u>B<sub>g</sub></u></td> <td><u>2.5Y 7/2</u></td> <td><u>2.5Y 7/2</u></td> <td><u>15% Drifted</u></td> <td><u>silty</u></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	<u>0-5</u>	<u>A</u>	<u>2.5Y 3/2</u>	<u>-</u>	<u>-</u>	<u>silty</u>	<u>5-10</u>	<u>B<sub>g</sub></u>	<u>2.5Y 7/2</u>	<u>2.5Y 7/2</u>	<u>15% Drifted</u>	<u>silty</u>						
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																				
<u>0-5</u>	<u>A</u>	<u>2.5Y 3/2</u>	<u>-</u>	<u>-</u>	<u>silty</u>																				
<u>5-10</u>	<u>B<sub>g</sub></u>	<u>2.5Y 7/2</u>	<u>2.5Y 7/2</u>	<u>15% Drifted</u>	<u>silty</u>																				
<p>Hydric Soil Indicators:</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>		<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)												
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<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																								
<p>Remarks:</p>																									

**WETLAND DETERMINATION**

<p>Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (circle)</p> <p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks:</p>	

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes   No	Community ID: _____
Is the site significantly disturbed (Atypical Situation)?      Yes   No	Transect ID: <u>D</u>
Is the area a potential Problem Area?      Yes   No	Plot ID: _____
(If needed, explain on reverse)	

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub      L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Typha latifolia</u>			10.		
2. <u>Typha latifolia</u>			11.		
3. <u>Quercus</u>			12.		
4. <u>Fraxinus</u>			13.		
5. <u>Typha latifolia</u>			14.		
6. <u>Typha latifolia</u>			15.		
7. <u>Typha latifolia</u>			16.		
8. <u>Typha latifolia</u>			17.		
9.			18.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)      4/5      5/10

Remarks:

Transect ID: D Plot ID: 49

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

**SOILS**

Map Unit Name (Series and Phase): <u>Palmdale S.H. loam</u>	Drainage Class: <u>Poor</u>																								
Taxonomy (Subgroup): <u>Aer-c endoaquapt</u>	Field Observations Confirm Mapped Type? Yes <input checked="" type="radio"/> No																								
<b>Profile Description:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Depth (inches)</th> <th style="width: 10%;">Horizon</th> <th style="width: 15%;">Matrix Color (Munsell Moist)</th> <th style="width: 15%;">Mottle Colors (Munsell Moist)</th> <th style="width: 15%;">Mottle Abundance/Contrast</th> <th style="width: 35%;">Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td><u>0-5</u></td> <td><u>A</u></td> <td><u>5.0 YR</u></td> <td><u>—</u></td> <td><u>—</u></td> <td><u>silty</u></td> </tr> <tr> <td><u>5-10</u></td> <td><u>B<sub>2</sub></u></td> <td><u>2.5Y 9/3</u></td> <td><u>2.5Y 9/3</u></td> <td><u>30% Fe-+</u></td> <td><u>shaly/loam</u></td> </tr> <tr> <td></td> <td></td> <td></td> <td><u>2.5Y 5/6</u></td> <td><u>15% Fe-+</u></td> <td></td> </tr> </tbody> </table>		Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	<u>0-5</u>	<u>A</u>	<u>5.0 YR</u>	<u>—</u>	<u>—</u>	<u>silty</u>	<u>5-10</u>	<u>B<sub>2</sub></u>	<u>2.5Y 9/3</u>	<u>2.5Y 9/3</u>	<u>30% Fe-+</u>	<u>shaly/loam</u>				<u>2.5Y 5/6</u>	<u>15% Fe-+</u>	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																				
<u>0-5</u>	<u>A</u>	<u>5.0 YR</u>	<u>—</u>	<u>—</u>	<u>silty</u>																				
<u>5-10</u>	<u>B<sub>2</sub></u>	<u>2.5Y 9/3</u>	<u>2.5Y 9/3</u>	<u>30% Fe-+</u>	<u>shaly/loam</u>																				
			<u>2.5Y 5/6</u>	<u>15% Fe-+</u>																					
<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors <input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)																									
Remarks: <u>Actual unit identified is Oriskany Silty Clay loam</u>																									

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No (circle) Wetland Hydrology Present? Yes <input checked="" type="radio"/> No Hydric Soils Present? Yes <input checked="" type="radio"/> No	Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No
Remarks:	

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

Project/Site: <u>5220 Camp Road</u>		Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>		Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>		County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Community ID:
Is the site significantly disturbed (Atypical Situation)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the area a potential Problem Area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Transect ID: <u>D</u>
(If needed, explain on reverse)		Plot ID: <u>FO</u>

**VEGETATION**

H= Herbaceous      T= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sap= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Potamogeton amplifolius</u>			10.		
2. <u>Potamogeton amplifolius</u>			11.		
3. <u>Potamogeton amplifolius</u>			12.		
4. <u>Potamogeton amplifolius</u>			13.		
5. <u>Potamogeton amplifolius</u>			14.		
6. <u>Potamogeton amplifolius</u>			15.		
7. <u>Potamogeton amplifolius</u>			16.		
8. <u>Potamogeton amplifolius</u>			17.		
9.			18.		

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

88%

Remarks:

Transect ID: D Plot ID: 50

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: NONE (in.) Depth to Free Water in Pit: NONE (in.) Depth to Saturated Soil: NONE (in.)	
Remarks:	

**SOILS**

Map Unit Name (Series and Phase): <u>Bladell Silty Clay loam, 0-3% slope</u>		Drainage Class: <u>Sev Poor</u>			
Taxonomy (Subgroup): <u>Histic Epiaquept</u>		Field Observations Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No			
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	10YR 7/2	-	-	SPKJ
6-12	Bw	10YR 6/3	-	-	FRKLS
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks: <u>ACTUAL UNIT IDENTIFIED: Bladell Silty S.H. loam</u>					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	No	(circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="checkbox"/> No
Wetland Hydrology Present?	Yes	No		
Hydric Soils Present?	Yes	No		
Remarks:				

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Eric</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	<u>Beach - rocky point</u>
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>51</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>...</u>			10. <u>...</u>		
2. <u>...</u>			11. <u>...</u>		
3. <u>...</u>			12. <u>...</u>		
4. <u>...</u>			13. <u>...</u>		
5. <u>...</u>			14. <u>...</u>		
6. <u>...</u>			15. <u>...</u>		
7. <u>...</u>			16. <u>...</u>		
8. <u>...</u>			17. <u>...</u>		
9. <u>...</u>			18. <u>...</u>		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>1/2</u>	<u>17%</u>	
Remarks:					

Transect ID: D Plot ID: 51

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>ABOVE</u> (in.)</p>	

Remarks:

**SOILS**

Map Unit Name (Series and Phase): DIPARK 4.4y Cbw 10a<sup>+</sup>, 0-3% 410/103 Drainage Class: SW Floor

Taxonomy (Subgroup): Acric Epiaqualcept Confirm Mapped Type?  Yes  No

Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-4	A	7.5Y 3/2	-	-	- 1/2
4-10	Bw	2.5Y 3/4	2.5Y 5/2	10% Fe <sub>2</sub> O <sub>3</sub>	5.7 1/2
			2.5Y 5/2	10% Fe <sub>2</sub> O <sub>3</sub>	

Hydric Soil Indicators:

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

Remarks:

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks:

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? Yes No	Community ID:
Is the site significantly disturbed (Atypical Situation)? Yes No	Transect ID: <u>D</u>
Is the area a potential Problem Area? Yes No	Plot ID: <u>F</u>
(If needed, explain on reverse)	

**VEGETATION**

H= Herbaceous	Tr= Tree
Sh= Shrub	L= Lianna/ Vine
S= Sapling	

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Panicum capillare</u>		<u>Tr</u>	10.		
2. <u>Poa annua</u>		<u>Tr</u>	11.		
3. <u>Poa annua</u>		<u>Tr</u>	12.		
4. <u>Poa annua</u>		<u>Tr</u>	13.		
5. <u>Poa annua</u>		<u>Tr</u>	14.		
6. <u>Poa annua</u>		<u>Tr</u>	15.		
7. <u>Poa annua</u>		<u>Tr</u>	16.		
8. <u>Poa annua</u>		<u>Tr</u>	17.		
9.			18.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-) 38%

Remarks:

Transect ID: D	Plot ID: 53
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### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>10.25</u> (in.)	
Remarks:	

### SOILS

Map Unit Name (Series and Phase): <u>Patchy silt loam</u> Taxonomy (Subgroup): <u>Aeric endoaquert</u>	Drainage Class: <u>Poor</u> Field Observations Confirm Mapped Type? Yes <input checked="" type="radio"/> No																								
<b>Profile Description:</b> <table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Muncell Moist)</th> <th>Mottle Colors (Muncell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-4</td> <td>A</td> <td>10Y2 1/2</td> <td>-</td> <td>-</td> <td>vs. silt loam</td> </tr> <tr> <td>4-10</td> <td>B<sub>11u</sub></td> <td>2.5Y 5/4</td> <td>2.5Y 5/2</td> <td>15% Faint</td> <td>sh. silt loam</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2.5Y 5/6</td> <td>15% Faint</td> <td></td> </tr> </tbody> </table>		Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-4	A	10Y2 1/2	-	-	vs. silt loam	4-10	B <sub>11u</sub>	2.5Y 5/4	2.5Y 5/2	15% Faint	sh. silt loam				2.5Y 5/6	15% Faint	
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																				
0-4	A	10Y2 1/2	-	-	vs. silt loam																				
4-10	B <sub>11u</sub>	2.5Y 5/4	2.5Y 5/2	15% Faint	sh. silt loam																				
			2.5Y 5/6	15% Faint																					
<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors <input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)																									
Remarks: <u>ACTUAL UNIT IDENTIFIED: Off-pink silty clay loam</u>																									

### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	(circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No
Wetland Hydrology Present?	Yes	No		
Hydric Soils Present?	Yes	No		
Remarks:				

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes   No	Community ID:
Is the site significantly disturbed (Atypical Situation)?      Yes   No	Transect ID: <u>D</u>
Is the area a potential Problem Area?      Yes   No	Plot ID: <u>51</u>
(If needed, explain on reverse)	

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>...</u>			10. <u>...</u>		
2. <u>...</u>			11. <u>...</u>		
3. <u>...</u>			12. <u>...</u>		
4. <u>...</u>			13. <u>...</u>		
5. <u>...</u>			14. <u>...</u>		
6. <u>...</u>			15. <u>...</u>		
7. <u>...</u>			16. <u>...</u>		
8. <u>...</u>			17. <u>...</u>		
9. <u>...</u>			18. <u>...</u>		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>5/10</u>		
Remarks: <u>...</u>					

Transect ID: D	Plot ID: 53
----------------	-------------

### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>None</u> (in.) Depth to Free Water in Pit: <u>None</u> (in.) Depth to Saturated Soil: <u>None</u> (in.)	
Remarks:	

### SOILS

Map Unit Name (Series and Phase): <u>Dipark silty clay loam</u>	Drainage Class: <u>Sid Pool</u>				
Taxonomy (Subgroup): <u>Aeric epiaqualf</u>	Field Observations Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No				
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-3</u>	<u>A</u>	<u>2.5Y 3/2</u>	<u>-</u>	<u>-</u>	<u>Silt loam</u>
<u>5-10</u>	<u>Bt</u>	<u>2.5Y 5/2</u>	<u>2.5Y 5/2</u>	<u>20% Brown</u>	<u>Silt loam</u>
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input checked="" type="checkbox"/> Aquic Moisture Regime <input checked="" type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks: <u>Actual unit identified: Patchy silt loam</u>					

### WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks:	

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes <input type="radio"/> No <input checked="" type="radio"/>	Community ID:
Is the site significantly disturbed (Atypical Situation)?      Yes <input type="radio"/> No <input checked="" type="radio"/>	Transect ID: <u>D</u>
Is the area a potential Problem Area?      Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>F44</u>
(If needed, explain on reverse)	

**VEGETATION**

H= Herbaceous	Tr= Tree
Sh= Shrub	L= Liana/Vine
Sa= Sapling	

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Typha latifolia</u>			10.		
2. <u>Sagittaria arifolia</u>			11.		
3. <u>Utricularia</u>			12.		
4. <u>Potamogeton</u>			13.		
5. <u>Sparganium</u>			14.		
6. <u>Elodea</u>			15.		
7. <u>Hydrilla</u>			16.		
8.			17.		
9.			18.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)      70      10

Remarks:

Transect ID: D Plot ID: 54

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input checked="" type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input checked="" type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>NONE</u> (in.)</p> <p>Depth to Free Water in Pit: <u>NONE</u> (in.)</p> <p>Depth to Saturated Soil: <u>NONE</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

<p>Map Unit Name (Series and Phase): <u>Oriskany Silty Clay loam</u></p>	<p>Drainage Class: <u>SW Poor</u></p>																								
<p>Taxonomy (Subgroup): <u>Acric Epiaqualf</u></p>	<p>Field Observations Confirm Mapped Type? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>																								
<p>Profile Description:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Munsell Moist)</th> <th>Mottle Colors (Munsell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-6"</td> <td>A1</td> <td>10YR 5/2</td> <td></td> <td>-</td> <td>sl / lo</td> </tr> <tr> <td>6-10"</td> <td>Bq</td> <td>2.5Y 5/2</td> <td>2.5Y 5/2</td> <td>20% flat - cl</td> <td>sl / lo</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-6"	A1	10YR 5/2		-	sl / lo	6-10"	Bq	2.5Y 5/2	2.5Y 5/2	20% flat - cl	sl / lo						
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																				
0-6"	A1	10YR 5/2		-	sl / lo																				
6-10"	Bq	2.5Y 5/2	2.5Y 5/2	20% flat - cl	sl / lo																				
<p>Hydric Soil Indicators:</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Histosol</td> <td><input type="checkbox"/> Concretions</td> </tr> <tr> <td><input type="checkbox"/> Histic Epipedon</td> <td><input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils</td> </tr> <tr> <td><input type="checkbox"/> Sulfidic Odor</td> <td><input type="checkbox"/> Organic Streaking in Sandy Soils</td> </tr> <tr> <td><input checked="" type="checkbox"/> Aquic Moisture Regime</td> <td><input type="checkbox"/> Listed on Local Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Reducing Conditions</td> <td><input type="checkbox"/> Listed on National Hydric Soils List</td> </tr> <tr> <td><input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table>		<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List	<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)												
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<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List																								
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)																								
<p>Remarks: <u>ACTUAL UNIT IDENTIFIED: Patchy Silty loam</u></p>																									

**WETLAND DETERMINATION**

<p>Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input type="checkbox"/> (circle)</p> <p>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>Is this Sampling Point Within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>Remarks:</p>	

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)?    Yes <input type="radio"/> No	Transect ID: <u>D</u>
Is the area a potential Problem Area?                      Yes <input type="radio"/> No	Plot ID: <u>  </u>
(If needed, explain on reverse)	

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Typha latifolia</u>	<u>H</u>	<u>10</u>	10.		
2. <u>Sagittaria arifolia</u>	<u>H</u>	<u>9</u>	11.		
3. <u>Utricularia vulgaris</u>	<u>H</u>	<u>10</u>	12.		
4. <u>Sparganium angustifolium</u>	<u>H</u>	<u>10</u>	13.		
5. <u>Sagittaria arifolia</u>	<u>H</u>	<u>10</u>	14.		
6. <u>Utricularia vulgaris</u>	<u>H</u>	<u>10</u>	15.		
7. <u>Sagittaria arifolia</u>	<u>H</u>	<u>10</u>	16.		
8. <u>Sagittaria arifolia</u>	<u>H</u>	<u>10</u>	17.		
9.			18.		

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

Remarks:

Transect ID: D | Plot ID: 625

**HYDROLOGY**

<p>Recorded Data (Describe in Remarks)</p> <p><input type="checkbox"/> Stream, Lake or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input checked="" type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12"</p> <p><input checked="" type="checkbox"/> Water-stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>None</u> (in.)</p> <p>Depth to Free Water in Pit: <u>None</u> (in.)</p> <p>Depth to Saturated Soil: <u>None</u> (in.)</p>	
<p>Remarks:</p>	

**SOILS**

Map Unit Name:  
 (Series and Phase): Oppark silty clay loam, 0-3% slope      Drainage Class: Sw Poor

Taxonomy (Subgroup): Argic epiaqualpt      Field Observations: \_\_\_\_\_  
 Confirm Mapped Type? Yes  No

Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	10YR 3/6	—	—	clay
6-10	B <sub>1</sub>	10YR 3/2	10YR 3/3	15% Dist. in	silty clay

Hydric Soil Indicators:

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

Remarks:  
Actual unit identified is Patchy silty loam

**WETLAND DETERMINATION**

<p>Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input type="checkbox"/> (circle)</p> <p>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>Is this Sampling Point Within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>Remarks:</p>	

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes    No	Community ID:
Is the site significantly disturbed (Atypical Situation)?    Yes    No	Transect ID: <u>D</u>
Is the area a potential Problem Area?      Yes    No	Plot ID:
(If needed, explain on reverse)	

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Sparganium angustifolium</u>		<u>Tr</u>	10.		
2. <u>Scirpus americanus</u>		<u>Tr</u>	11.		
3. <u>Sagittaria arifolia</u>		<u>H</u>	12.		
4. <u>Sparganium angustifolium</u>		<u>Tr</u>	13.		
5.			14.		
6.			15.		
7.			16.		
8.			17.		
9.			18.		

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

1/2 100%

Remarks:

Transect ID: D Plot ID: 56

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

**SOILS**

Map Unit Name (Series and Phase): <u>Oriskany silt clay loam, 0-3% slopes</u>	Drainage Class: <u>low poor</u> Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																								
Taxonomy (Subgroup): <u>Acric Oplinthant</u>																									
<b>Profile Description:</b>																									
<table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Munsell Moist)</th> <th>Mottle Colors (Munsell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-6</td> <td>A</td> <td>2.5Y 5/2</td> <td>-</td> <td>-</td> <td>s.veg</td> </tr> <tr> <td>6-10</td> <td>BC</td> <td>2.5Y 5/3</td> <td>2.5Y 5/1</td> <td>25% Fu +</td> <td>sil/rock</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2.5Y 5/3</td> <td>15% Distinct</td> <td></td> </tr> </tbody> </table>	Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-6	A	2.5Y 5/2	-	-	s.veg	6-10	BC	2.5Y 5/3	2.5Y 5/1	25% Fu +	sil/rock				2.5Y 5/3	15% Distinct		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																				
0-6	A	2.5Y 5/2	-	-	s.veg																				
6-10	BC	2.5Y 5/3	2.5Y 5/1	25% Fu +	sil/rock																				
			2.5Y 5/3	15% Distinct																					
<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors <input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)																									
Remarks:																									

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (circle)	Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Hydric Soils Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks:	

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

23

Project/Site: 5220 Camp Road	Date: 08/21/06
Applicant/Owner: Benderson	Town: Hamburg
Investigators: Scott Livingstone & Travis Morse	County: Erie State: New York
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: D
(If needed, explain on reverse)	Plot ID:

**VEGETATION**

H= Herbaceous	Tr= Tree
Sh= Shrub	L= Liana/ Vine
Sa= Sapling	

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1.			10.		
2.			11.		
3.			12.		
4.			13.		
5.			14.		
6.			15.		
7.			16.		
8.			17.		
9.			18.		

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

Remarks:

Transect ID: D

Plot ID: 57

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

**SOILS**

Map Unit Name (Series and Phase): <u>OPPAK S:Hy Clay loam, 0-3% slopes</u>	Drainage Class: <u>SU Poor</u>																								
Taxonomy (Subgroup): <u>Albic epiaxcept</u>	Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No																								
<b>Profile Description:</b>																									
<table border="1"> <thead> <tr> <th>Depth (inches)</th> <th>Horizon</th> <th>Matrix Color (Munsell Moist)</th> <th>Mottle Colors (Munsell Moist)</th> <th>Mottle Abundance/Contrast</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-6</td> <td>A</td> <td>2.5Y3/2</td> <td>-</td> <td>-</td> <td>silty/cl</td> </tr> <tr> <td>6-10</td> <td>Bw</td> <td>2.5Y5/4</td> <td>2.5Y5/6</td> <td>10% Faint</td> <td>vs silty/cl</td> </tr> <tr> <td></td> <td></td> <td></td> <td>2.5Y5/2</td> <td>20% Faint</td> <td></td> </tr> </tbody> </table>	Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	0-6	A	2.5Y3/2	-	-	silty/cl	6-10	Bw	2.5Y5/4	2.5Y5/6	10% Faint	vs silty/cl				2.5Y5/2	20% Faint		
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.																				
0-6	A	2.5Y3/2	-	-	silty/cl																				
6-10	Bw	2.5Y5/4	2.5Y5/6	10% Faint	vs silty/cl																				
			2.5Y5/2	20% Faint																					
<b>Hydric Soil Indicators:</b>																									
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)																								
Remarks:																									

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	<input checked="" type="radio"/> No (circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No
Wetland Hydrology Present?	Yes	<input checked="" type="radio"/> No	
Hydric Soils Present?	Yes	<input checked="" type="radio"/> No	
Remarks:			

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

23

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes    No	Community ID:
Is the site significantly disturbed (Atypical Situation)?    Yes    No	
Is the area a potential Problem Area?      Yes    No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>33</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Lianna/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Cyperus</u>			10.		
2. <u>Sagittaria</u>			11.		
3. <u>Sparganium</u>			12.		
4. <u>Typha</u>			13.		
5. <u>Typha</u>			14.		
6. <u>Potamogeton</u>			15.		
7.			16.		
8.			17.		
9.			18.		

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

5/      83%

Remarks:

Transect ID: D	Plot ID: 58
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### HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake or Tide Gauge ___ Aerial Photographs ___ Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> ___ Inundated ___ Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands <b>Secondary Indicators:</b> ___ Oxidized Root Channels in Upper 12" ___ Water-stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

### SOILS

Map Unit Name (Series and Phase): <u>Dipark Silty Clay loam, 0-3% slopes</u>	Drainage Class: <u>SW POOL</u>				
Taxonomy (Subgroup): <u>Aeric episupept</u>	Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No				
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	2.5Y 5/2	-	-	S-1/CR
6-10	Bw	2.5Y 5/3	2.5Y 5/6	15% Discont	S+SS/S/SK
			2.5Y 5/2	25% Fa-n	
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	<input checked="" type="radio"/> No	(circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Wetland Hydrology Present?	Yes	<input checked="" type="radio"/> No		
Hydric Soils Present?	Yes	<input checked="" type="radio"/> No		
Remarks:				

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes    No	Community ID:
Is the site significantly disturbed (Atypical Situation)?    Yes    No	
Is the area a potential Problem Area?      Yes    No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>50</u>

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Spartina patens</u>	<u>H</u>	<u>Fac</u>	10.		
2. <u>Spartina patens</u>	<u>H</u>	<u>Fac</u>	11.		
3. <u>Cyperus sp.</u>	<u>Sa</u>	<u>Tr</u>	12.		
4. <u>Cyperus sp.</u>	<u>Sa</u>	<u>Tr</u>	13.		
5. <u>Panicum sp.</u>	<u>L</u>	<u>Tr</u>	14.		
6. <u>Panicum sp.</u>	<u>L</u>	<u>Tr</u>	15.		
7.			16.		
8.			17.		
9.			18.		

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

Remarks:

Transect ID: D

Plot ID: 59

**HYDROLOGY**

___ Recorded Data (Describe in Remarks) ___ Stream, Lake or Tide Gauge ___ Aerial Photographs ___ Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> ___ Inundated ___ Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands <b>Secondary Indicators:</b> ___ Oxidized Root Channels in Upper 12" ___ Water-stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

**SOILS**

Map Unit Name (Series and Phase): <u>ORPORK Silty Clay loam, 0-3% slope</u>	Drainage Class: <u>LOW POOL</u>				
Taxonomy (Subgroup): <u>ARIC Epiaquept</u>	Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6"	A	2.5Y 7/2	-	-	CL/CR
6-10"	B <sub>W</sub>	2.5Y 5/4	2.5Y 5/2	50% Faint	SH/SL/SBK
			2.5Y 5/6	20% Faint	
<b>Hydric Soil Indicators:</b>					
___ Histosol		___ Concretions			
___ Histic Epipedon		___ High Organic Content in Surface Layer Sandy Soils			
___ Sulfidic Odor		___ Organic Streaking in Sandy Soils			
___ Aquic Moisture Regime		___ Listed on Local Hydric Soils List			
___ Reducing Conditions		___ Listed on National Hydric Soils List			
___ Gleyed or Low-Chroma Colors		___ Other (Explain in Remarks)			
Remarks:					

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes	<input checked="" type="radio"/> No	(circle)	Is this Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Wetland Hydrology Present?	Yes	<input checked="" type="radio"/> No		
Hydric Soils Present?	Yes	<input checked="" type="radio"/> No		
Remarks:				

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes <input type="checkbox"/> No <input type="checkbox"/>	Community ID: _____
Is the site significantly disturbed (Atypical Situation)?      Yes <input type="checkbox"/> No <input type="checkbox"/>	Transect ID: <u>D</u>
Is the area a potential Problem Area?      Yes <input type="checkbox"/> No <input type="checkbox"/>	Plot ID: <u>600</u>
(If needed, explain on reverse)	

**VEGETATION**

H= Herbaceous	Tr= Tree
Sh= Shrub	L= Liana/ Vine
Sa= Sapling	

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Sparganium angustifolium</u>	<u>H</u>	<u>FAC</u>	10.		
2. <u>Cyperus tenuis</u>	<u>H</u>	<u>FAC</u>	11.		
3. <u>Potamogeton amplifolius</u>	<u>H</u>	<u>FAC</u>	12.		
4. <u>Sparganium angustifolium</u>	<u>H</u>	<u>FAC</u>	13.		
5.			14.		
6.			15.		
7.			16.		
8.			17.		
9.			18.		

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

Remarks: Co-...

Transect ID: D

Plot ID: 60

**HYDROLOGY**

\_\_\_ Recorded Data (Describe in Remarks)

\_\_\_ Stream, Lake or Tide Gauge

\_\_\_ Aerial Photographs

\_\_\_ Other

 No Recorded Data Available

Field Observations:

Depth of Surface Water: NONE (in.)Depth to Free Water in Pit: NONE (in.)Depth to Saturated Soil: NONE (in.)

Wetland hydrology Indicators:

Primary Indicators:

\_\_\_ Inundated

\_\_\_ Saturated in Upper 12 Inches

\_\_\_ Water Marks

\_\_\_ Drift Lines

\_\_\_ Sediment Deposits

\_\_\_ Drainage Patterns in Wetlands

Secondary Indicators:

\_\_\_ Oxidized Root Channels in Upper 12"

\_\_\_ Water-stained Leaves

\_\_\_ Local Soil Survey Data

\_\_\_ FAC-Neutral Test

\_\_\_ Other (Explain in Remarks)

Remarks:

**SOILS**

Map Unit Name

(Series and Phase): ORDAIR silt loam clay loam, 0-3% slopesDrainage Class: SW PoorTaxonomy (Subgroup): Melic epiaerent

Field Observations

Confirm Mapped Type?  Yes  No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	2.5Y 7/2	-	-	Silt/GR
6-10	Bw	2.5Y 5/4	2.5Y 7/2	20% Faint	SHS/S/GLE
			2.5Y 5/6	10% Faint	

Hydric Soil Indicators:

\_\_\_ Histosol

\_\_\_ Histic Epipedon

\_\_\_ Sulfidic Odor

\_\_\_ Aquic Moisture Regime

\_\_\_ Reducing Conditions

\_\_\_ Gleyed or Low-Chroma Colors

\_\_\_ Concretions

\_\_\_ High Organic Content in Surface Layer Sandy Soils

\_\_\_ Organic Streaking in Sandy Soils

\_\_\_ Listed on Local Hydric Soils List

\_\_\_ Listed on National Hydric Soils List

\_\_\_ Other (Explain in Remarks)

Remarks:

**WETLAND DETERMINATION**Hydrophytic Vegetation Present? Yes  No (circle)Wetland Hydrology Present? Yes  NoHydric Soils Present? Yes  NoIs this Sampling Point Within a Wetland? Yes  No

Remarks:

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

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/21/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID:
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	Transect ID: <u>D</u>
Is the area a potential Problem Area? <input type="radio"/> Yes <input checked="" type="radio"/> No	Plot ID: <u>E1</u>
(If needed, explain on reverse)	

**VEGETATION**

H= Herbaceous      Tr= Tree  
 Sh= Shrub          L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Sparganium angustifolium</u>			10.		
2. <u>Scirpus americanus</u>			11.		
3. <u>Sparganium angustifolium</u>			12.		
4. <u>Scirpus americanus</u>			13.		
5. <u>Sparganium angustifolium</u>			14.		
6. <u>Scirpus americanus</u>			15.		
7. <u>Sparganium angustifolium</u>			16.		
8.			17.		
9.			18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>6/9</u>	<u>86%</u>	
Remarks: <u>...</u>					

Transect ID: D

Plot ID: 61

**HYDROLOGY**

Recorded Data (Describe in Remarks)

- Stream, Lake or Tide Gauge  
 Aerial Photographs  
 Other

 No Recorded Data Available

Field Observations:

Depth of Surface Water: NONE (in.)  
 Depth to Free Water in Pit: NONE (in.)  
 Depth to Saturated Soil: NONE (in.)

Wetland hydrology indicators:

Primary Indicators:

- Inundated  
 Saturated in Upper 12 Inches  
 Water Marks  
 Drift Lines  
 Sediment Deposits  
 Drainage Patterns in Wetlands

Secondary Indicators:

- Oxidized Root Channels in Upper 12"  
 Water-stained Leaves  
 Local Soil Survey Data  
 FAC-Neutral Test  
 Other (Explain in Remarks)

Remarks:

**SOILS**

Map Unit Name

(Series and Phase): Dipark Silty Clay loam, 0-3% slope Drainage Class: poorTaxonomy (Subgroup): Aeric Fluvent

Field Observations

Confirm Mapped Type?  Yes  No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	10YR 7/2	—	—	silty/cl
6-10	BW	2.5Y 5/4	2.5Y 5/2	20% faint	silty/cl
			2.5Y 5/6	20% faint	

Hydric Soil Indicators:

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

Remarks:

**WETLAND DETERMINATION**Hydrophytic Vegetation Present? Yes  No  (circle)Wetland Hydrology Present? Yes  No Hydric Soils Present? Yes  No Is this Sampling Point Within a Wetland? Yes  No 

Remarks:

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

23

Project/Site: <u>5220 Camp Road</u>	Date: <u>08/29/06</u>
Applicant/Owner: <u>Benderson</u>	Town: <u>Hamburg</u>
Investigators: <u>Scott Livingstone &amp; Travis Morse</u>	County: <u>Erie</u> State: <u>New York</u>
Do Normal Circumstances Exist on the site?      Yes   No	Community ID:
Is the site significantly disturbed (Atypical Situation)?   Yes   No	
Is the area a potential Problem Area?      Yes   No	Transect ID: <u>D</u>
(If needed, explain on reverse)	Plot ID: <u>100</u>

**VEGETATION**

H= Herbaceous      T= Tree  
 Sh= Shrub      L= Liana/ Vine  
 Sa= Sapling

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Sparganium angustifolium</u>		<u>1</u>	10.		
2. <u>Sagittaria arifolia</u>		<u>4</u>	11.		
3. <u>Ranunculus repens</u>		<u>2</u>	12.		
4. <u>Cyperus tenuis</u>		<u>1</u>	13.		
5. <u>Potamogeton amplifolius</u>		<u>1</u>	14.		
6. <u>Rhynchospora alba</u>		<u>1</u>	15.		
7. <u>Utricularia vulgaris</u>		<u>1</u>	16.		
8. <u>Potamogeton amplifolius</u>		<u>1</u>	17.		
9. <u>Potamogeton amplifolius</u>		<u>1</u>	18.		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)			<u>5/9</u>	<u>56%</u>	
Remarks: <u>5/9 OBL, 4/9 FACW, 0/9 FAC</u>					

Transect ID: D	Plot ID: 62
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### HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators:</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12" <input type="checkbox"/> Water-stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>NONE</u> (in.) Depth to Free Water in Pit: <u>NONE</u> (in.) Depth to Saturated Soil: <u>NONE</u> (in.)	
Remarks:	

### SOILS

Map Unit Name: (Series and Phase): <u>Angola Silt loam, 0-3% slopes</u>	Drainage Class: <u>Swampy floor</u> Field Observations Confirm Mapped Type? <input checked="" type="checkbox"/> No				
Taxonomy (Subgroup): <u>Aeric epiaqualf</u>					
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Muncell Moist)	Mottle Colors (Muncell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	2.5Y 7/2	-	-	Silt loam
6-10	BE	2.5Y 7/4	2.5Y 7/2	20% faint	Silt loam
			2.5Y 7/6	20% faint	
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

### WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No <sup>3</sup> (circle)	Is this Sampling Point Within a Wetland? Yes No
Wetland Hydrology Present?	Yes	No <sup>3</sup>	
Hydric Soils Present?	Yes	No <sup>3</sup>	
Remarks:			

# **5220 Camp Road**



## **ATTACHMENT C** *Aerial Photograph*



Attachment C: Aerial Photograph  
<http://www.erie.gov/maps>  
Site visited November 6, 2006.

5220 Camp Road  
Town of Hamburg, Erie County, New York



# 5220 Camp Road



## ATTACHMENT D

*Site Photographs*



Photo 1: From the northern tip of the site, facing southwest, depicts existing development within the site.



Photo 2: From the northern tip of the site facing south, depicts a parking lot in the northern portion of the site.



Photo 3: In the northern portion of the site facing north



Photo 4: Facing northeast at the southwestern edge of the existing developed area on site.



Photo 5: Facing north from the southwestern corner of the parking lot in the northern portion of the site.



Photo 6: Facing south at the southwestern corner of developed area.



Photo 7: Facing west from data point D5, depicts a hemlock northern hardwood forest.



Photo 8: Facing southwest in wetland 2 from data point D8, depicts a hemlock hardwood swamp.



Photo 9: Facing east in wetland 2 from wetland boundary point W2-83. Depicts a floodplain forest.



Photo 10: Facing southeast along the stream in wetland 2.



Photo 11: Facing southwest in wetland 1 from near data point D22. A hardwood swamp is depicted.



Photo 12: Facing north into wetland 1 from where a stream enters the site from a culvert along the southern boundary.



Photo 13: Facing northeast along the southern boundary of the site.



Photo 14: Facing east in wetland 2 toward a storm sewer outfall.



Photo 15: From the southeastern corner of wetland 3, facing into the shrub swamp/maple hardwood swamp wetland.



Photo 16: Facing northeast along a trail in the southeastern portion of the site.



Photo 17: Facing southwest along the trail.



Photo 18: Depicts wetland 4, a maple hardwood swamp in the eastern portion of the site.



Photo 19: Facing north into wetland 5, a maple hardwood swamp located east of wetland 4.



Photo 20: Depicts a gas line in the eastern portion of the site.

# 5220 Camp Road



## ATTACHMENT E

*References*

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