# APPENDIX H4 – 1999 WETLANDS IDENTIFICATION AND DELINEATION REPORT FOR SADVA

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23 June 1999

Ms. Debra Ann Ford

U.S. Army Corps of Engineers, Baltimore

Attn: CENAB-EN-HN
10 South Howard Street
City Crescent Building, Room 10040
Baltimore, Maryland 21201

RE: Wetlands Identification and Delineation
Former Schenectady Army Depot - Voorheesville Area
Contract No. DACA31-94-D-0025, Delivery Order No. 0140
DERP-FUDS Project No. C02NY0002
EA Project No. 60957.51

Dear Ms. Ford:

Enclosed please find 3 copies of the Revised Draft Investigation Report—Wetlands Identification and Delineation, Former Schenectady Army Depot-Voorheesville Area. Three copies of the report have also been forwarded to the U.S. Army Corps of Engineers—New York (USACE).

Comments to the draft report have been received and addressed. EA's responses are attached to this letter. Requests were made to the New York State Department of Environmental Conservation (NYSDEC) and USACE for field inspections of wetlands boundaries. Mr. Karl Parker, of the NYSDEC, reviewed and confirmed the delineated wetlands boundaries and made a jurisdictional determination for the wetlands (see attached comments). Adjustments based on NYSDEC's field inspection were incorporated into the revised draft report. USACE declined to perform a field inspection of the site.

If you have any questions or comments regarding this submittal, please feel free to contact me.

Sincerely,

Thomas W. Porter Project Manager

Thomas W. Reiterpress

TWP/caw Enclosures

cc: D. Roberts (Roberts Environmental Consulting)

P. Muessig (EA)
T. Sexton (EA)

# RESPONSE TO COMMENTS FROM THE U.S. ARMY CORPS OF ENGINEERS ON THE DRAFT INVESTIGATION REPORT WETLANDS IDENTIFICATION AND DELINEATION FORMER SCHENECTADY ARMY DEPOT - VOORHEESVILLE AREA CONTRACT NO. DACA31-94-D-0025, DELIVERY ORDER NO. 0140 DERP-FUDS PROJECT NO. C02NY0002

EA Engineering, Science, and Technology has reviewed the comments provided by the U.S. Army Corps of Engineers (USACE) for the *Draft Investigation Report—Wetlands Identification and Delineation, Former Schenectady Army Depot-Vorheesville Area*, dated December 1998. EA has incorporated edits into the Revised Draft Investigation Report based on the comments. EA's responses are summarized below.

**COMMENTOR:** David Brouwer

**AFFILIATION/OFFICE:** USACE-New York

Comment 1—"The reference to Northeastern Industrial Park in the title should be deleted."

Response—Revised as requested.

2. Comment 2—"An executive summary should be prepared."

Response—An executive summary has been added as requested.

3. Comment 3—"The reference to the owner of the NEIP should be corrected."

Response-Revised as requested.

Comment 4—"Page 1-2. The word 'potential' should be added when referring to AOCs."
 Response—Revised as requested.

5. Comment 5—"Page 1-2 and Figure 1-2. The sewage treatment plant and offsite storage area should not be identified as AOCs."

Response—Revised as requested.

6. Comment 6—"Isn't an equally important goal of this effort to evaluate whether cleanup is required and to evaluate alternative cleanup strategies?"

**Response**—The objective of the wetland identification and delineation task was to identify and delineate wetlands so that this information could be used to assess potential impacts future Remedial Actions, if required, would have on the wetland areas.

7. Comment 7—"Page 2-1. Recommend that all field inspections of wetland boundaries for all AOCs by the Corps and NYSDEC be completed before the draft is distributed for public review."

Response—Mr. Karl Parker, of the NYSDEC, Division of Fish, Wildlife and Marine Resources, reviewed and confirmed the delineated wetlands boundaries and made a jurisdictional determination for the wetlands (see attached letter dated 22 June 1999). Adjustments based on NYSDEC's field inspection were incorporated into the revised draft report. USACE declined to perform a field inspection of the site.

8. Comment 8—"For AOC2, initially note that the landfill is located on property now owned by the Burns family and delete all further references in the report to the Burns property when referring to this AOC. Recommend identifying it as AOC2, the Post Commander's landfill, or something else, not the Burns property."

Response—Revised as requested.

# New York State Department of Environmental Conservation Division of Fish, Wildlife and Marine Resources, Region 4 Bureau of Wildlife

1150 North Westcott Road, Schenectady, New York 12306-2014 Phone: (518) 357-2066 FAX: (518) 357-2460



June 22, 1999

Deborah Roberts
Roberts Environmental Consulting
273 Haviland Rd.
Queensbury, NY 12804

Re: Wetland V-19 at former Schenectady Army Depot, Town of Guilderland, Albany Co.

Dear Ms. Roberts:

On May 5, 1999 we met at the current Northeastern Industrial Park and the Burns property in order to review the boundaries of freshwater wetlands at the sites, as delineated by you and represented on survey maps submitted to this office with the Draft Investigation Report Wetlands Identification and Delineation at Northeastern Industrial Park, dated December 1998.

A number of minor revisions were made during the course of our field review to the wetland boundary of the Northeastern Industrial Park represented on Map S-1. However, my determination is that this map accurately depicts the limits of Freshwater Wetland V-19 on the Industrial Park property. More specifically, the wetlands shown on Map S-1 are considered part of wetland V-19 and would be regulated in their entirety under the Freshwater Wetlands Act. Although there are some locations where wetland segments are physically separated by a roadway, railroad track or narrow section of upland, in many cases there is a direct hydrological connection between these wetland segments, and in all cases, the wetland segments are within 165 feet of each other. Based on my review in the field, it is my determination that these wetland segments are connected for mapping and regulatory purposes, in that they function as a unit in providing one or more wetland benefits as described in ECL 24-0105(7). A 100' regulated buffer area also extends upland from the delineated wetland boundary.

In regard to the Burns property, the only substantial revision was the exclusion from the state wetland boundary of the pond and the meadow near the pond outfall. I would connect Flag 36 to Flag 50 to exclude this area. The rationale for this exclusion is that those areas were culturally maintained and showed no clear evidence of a predominance of hydrophytic vegetation. However, it is my determination that on this site State Regulated Wetland V-19 actually extends without substantial interruption all the way to Depot Road, as indicated on survey Map S-2. A 100' regulated buffer area also extends from the delineated wetland boundary.

As we also discussed, in the course of my field work I observed apparent freshwater wetland and solid waste violations at the Northeastern Industrial Park in the site of the area labeled "Construction and Demolition Landfill" on Figure 1-2 of the Investigation Report. This Department has notified the landowner of the alleged violation and will be pursuing this matter further.

Permits are required for regulated activities which are proposed within the wetland or within 100 feet of the delineated wetland boundary. A list of regulated activities may be found in the Freshwater Wetlands Permit Requirements Regulations (6NYCRR Part 663). Questions regarding permits should be directed to our Division of Environmental Permits at 518-357-2069.

Please submit 3 copies of the revised survey maps, so that I may issue a written map approval. One copy of each approved map will be returned to you.

Sincerely,

Karl E. Parker

Senior Wildlife Biologist

Region 4

EA Engineering, Science, and Technology

11019 McCormick Road Hunt Valley, MB 21031 Telephone: 410-584-7000 Direct 410-527-2474 Fax: 410-527-1058 bth@eaest.com



Brenda Herman Program Manager

Environmental, Remediation, Energy, & Laboratory Services



#### **REVISED DRAFT**

# Investigation Report Wetlands Identification and Delineation Former Schenectady Army Depot – Voorheesville Area

#### Prepared for

U.S. Army Corps of Engineers
Baltimore District
10 South Howard Street
Baltimore, Maryland 21201

#### Prepared by

EA Engineering, Science, and Technology 202 Twin Oaks Drive Syracuse, New York 13206 (315) 431-4610

and

Roberts Environmental Consulting, Inc. 273 Haviland Road Queensbury, New York 12804

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#### LIST OF ACRONYMS AND ABBREVIATIONS

**AOC** 

Area of Concern

C&D

Construction and Demolition

**FEMA** 

Federal Emergency Management Agency

IR

Investigation Report

**NYSDEC** 

New York State Department of Environmental Conservation

**SADVA** 

Schenectady Army Depot — Voorheesville Area

**SCS** 

Soil Conservation Service

**USACE** 

U.S. Army Corps of Engineers

**USFWS** 

U.S. Fish and Wildlife Service

**USGS** 

U.S. Geological Survey

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#### **EXECUTIVE SUMMARY**

The U.S. Army Corps of Engineers–Baltimore District (USACE), issued Delivery Order No. 0140 under Contract No. DACA31-94-D-0025 to EA Engineering, Science, and Technology to conduct field investigative activities and an archival record search related to Phase I of the Comprehensive Work Plan for the former Schenectady Army Depot–Vorheesville Area in Guilderland, New York. The investigation was conducted under the Defense Environmental Restoration Program–Formerly Used Defense Sites. The work accomplished under this Delivery Order included the identification and delineation of potential wetlands in the vicinity of identified areas of concern (AOC) at the site. EA identified and delineated potential AOCs at the site during the archival record search. Three AOCs required detailed field examination to identify and delineate wetlands. EA subcontracted Roberts Environmental Consulting, Inc. to assist with completion of this portion of the project. A brief summary of the results of the surveys and recommendations for each AOC follow.

#### ES.1 AOC1W

The wetland survey at AOC1 consisted of a subsection of the U.S. Army Southern Landfill designated AOC1W. The results of the field examination indicate that two separate wetland systems occur within AOC1W: a pond/marsh system and a forested wetland. The habitat quality of the two systems varies widely. While the pond/marsh environment supports wildlife and waterfowl, it does not represent an extensive or diverse habitat. The forested wetland is contiguous with a larger wetland system lying within the 100-year floodplain of the Black Creek and has the potential to be high quality habitat for wildlife and waterfowl.

The forested wetlands at AOC1W should be protected from any disturbance that would result in sediment discharge to the wetland. Any remedial action in the other wetlands located at AOC1W should include mitigation to enhance wetland functions on the site. The probable occurrence of the state-listed marsh valerian at AOC1W would probably require an onsite survey prior to any disturbance of wetland habitat.

#### ES.2 AOC2

One major wetland complex was identified at AOC2 containing a variety of different habitats. A forested hardwood swamp has the greatest potential to be high quality habitat for wildlife and waterfowl. It is connected to the Black Creek wetland system although it does not lie within the 100-year floodplain. Other wetland areas identified include the power line right-of-way and a recently disturbed scrub/shrub and forested wetland, but these areas provide more limited habitat.

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Any remedial activities at AOC2 should avoid disturbance of the forested wetland. The other wetland areas at the site might benefit from restoration or enhancement, particularly in disturbed areas. Marsh valerian surveys should also be performed at AOC2 prior to wetland habitat disturbance.

#### ES.3 AOC4

The wetlands located at AOC4 are forested floodplain wetlands associated with Black Creek. This wetland is probably seasonally saturated and to some extent flooded between November and June. The moderately mature forest occurring in this wetland floodplain supports highly valuable wildlife and waterfowl habitat.

Remedial action undertaken at this site should attempt to prevent the discharge of sediment to the wetland. Bank stabilization at the edge of the C&D Landfill material might prevent erosion of material into the wetland. Landfill material surrounding large trees should be removed with care such that neither the trees nor the wetlands are negatively impacted. An onsite survey for the state-listed marsh valerian should be performed at this site prior to remedial activities.

#### ES.4 WETLAND JURISDICTION DETERMINATION

The wetland areas within AOCW1, AOC2, and AOC4 were delineated in accordance with the U.S. Army Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987). On 5 May 1999, a representative of the New York State Department of Environmental Conservation (NYSDEC) reviewed and confirmed the delineated wetlands boundaries and made a jurisdictional determination for the three AOCs. All wetlands delineated in AOC1W and AOC4 fall under both NYSDEC and USACE regulatory jurisdiction. NYSDEC determined that two linear wetlands adjacent to County Road 201 and a wetland contiguous to a constructed pond in AOC2 do not fall within their regulatory jurisdiction; all other wetlands delineated within AOC2 are under NYSDEC and USACE jurisdiction.

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#### 1. INTRODUCTION

The U.S. Army Corps of Engineers-Baltimore District (USACE), issued Delivery Order No. 0140 under Contract No. DACA31-94-D-0025 to EA Engineering, Science, and Technology to conduct field investigative activities and an archival record search related to Phase I of the Comprehensive Work Plan for the former Schenectady Army Depot – Voorheesville Area (SADVA), in Guilderland, New York. EA subcontracted Roberts Environmental Consulting, Inc. to assist with completion of this project. The investigation was conducted under the Defense Environmental Restoration Program – Formerly Used Defense Sites.

#### 1.1 SITE BACKGROUND AND SETTING

#### 1.1.1 Site Location

The former SADVA is located south of New York State Route 146 and east of New York State Route 158, approximately 0.25 mi southeast of the Town of Guilderland Center, New York (Figure 1-1). The site is approximately 3 mi north of Voorheesville, New York, and 3 mi west of Guilderland, New York.

The former SADVA (Figure 1-2) consists of approximately 650 acres of which 559 acres are currently owned by the Galesi Group; the Town of Guilderland; Agway, Inc.; and other private landowners. Galesi Group leases warehouse and storage space on their portion of the property. A 40-acre tract of land located west of County Route 201 is presently owned by the Burns family and is used for farming with a private residence on the property. The U.S. Government retains a 35.5-acre parcel for a strategic materials storage area.

#### 1.1.2 Site History

The SADVA was established in 1941-1942 as a storage depot for the military during World War II through condemnation of what was primarily farmland. The site originally included approximately 24 warehouse and storage buildings, barracks, garage and maintenance facilities, a firehouse, and water supply and sewer facilities. Access to the site consisted of several railroad spurs from the Conrail main line that parallels the depot on the east side. Activities that have occurred at the site include receipt, storage, and transmission of goods and materials for military activities. Additional uses at the site included landfills and a strategic materials storage area. Three landfills have been identified at the site: U.S. Army Southern Landfill, Construction and Demolition (C&D) Landfill, and a small landfill located on the west side of the site.

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In 1963, a 40-acre parcel was sold to the Burns family. In 1969, the main portion of the site was closed and sold by the federal government to various private parties. The Galesi Group purchased 559.65 acres of the former depot for warehouse, commercial, and light industrial purposes. The existing warehouse facilities were leased by the Galesi Group to commercial tenants. Approximately 35.5 acres of the site remain under Department of Defense control for storage of strategic materials. The remainder of the former depot that was released was purchased by other private parties.

#### 1.2 PROJECT OVERVIEW

The overall objective of this project was to support USACE in the environmental restoration of the former SADVA. As part of the environmental restoration process, anticipated activities include the investigation, design, and cleanup, as appropriate, for four potential areas of concern (AOC) (Figure 1-2) including:

- AOC1—U.S. Army Southern Landfill
- AOC2-Bivouac Area
- AOC3—Burn Pits
- AOC4—C&D Landfill.

USACE has developed a Final Comprehensive Work Plan, dated July 1998, for restoration activities at SADVA. The Comprehensive Work Plan provides a general overview of the work to be completed through several stages of site environmental restoration. The environmental restoration process will progress in three phases. The work completed under this Delivery Order has been conducted as part of the Phase I work and includes:

- Identification and delineation of potential wetlands in the vicinity of the AOC1 (U.S. Army Southern Landfill), AOC2 (Bivouac Area), and AOC4 (C&D Landfill).
- An archival record search to assess site ownership and operational history of the former SADVA.
- A hydrogeologic investigation in the vicinity of AOC1, the U.S. Army Southern Landfill.

This Investigation Report (IR) focuses on the results of the Wetlands Identification and Delineation task only and will be referred to as the IR—Wetlands Identification and Delineation. Separate investigation reports will be submitted for the Archival Search and Hydrogeologic Investigation tasks. These reports will be referred to as the IR—Archival Search and IR—Hydrogeologic Investigation.

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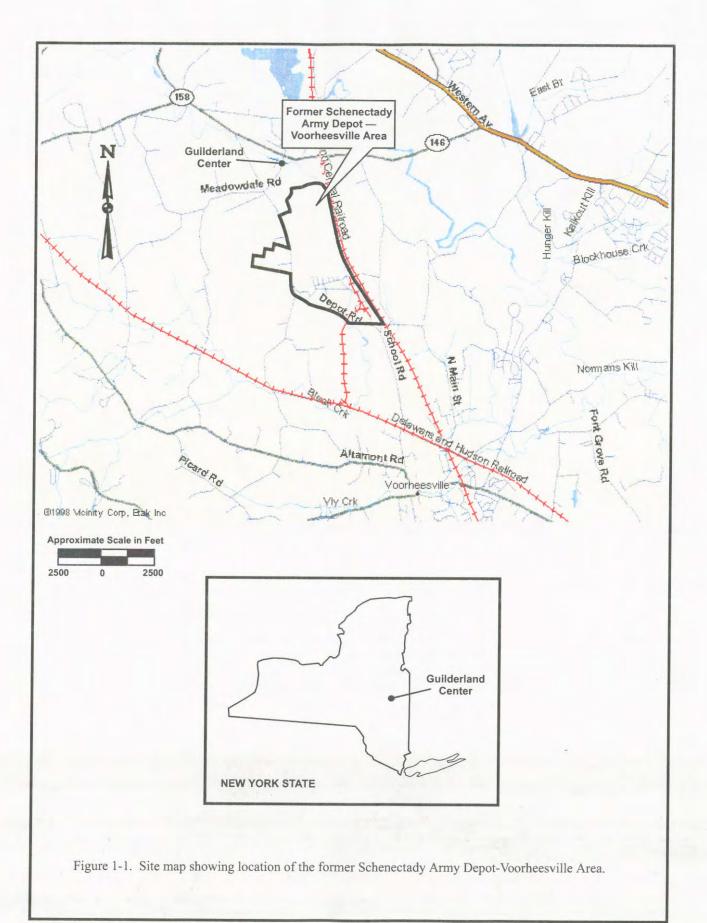
#### 1.3 WETLANDS IDENTIFICATION AND DELINEATION OBJECTIVES

The objective of the Wetlands Identification and Delineation task was to identify and delineate wetland areas in portions of the former SADVA. The wetlands identification and delineation was necessary in order to assist USACE with assessing the impact of potential future remedial actions on the wetland areas in these selected areas of the former SADVA. These selected areas included the vicinity of the U.S. Army Southern Landfill (AOC1), the Bivouac Area (AOC2), and the C&D Landfill (AOC4).

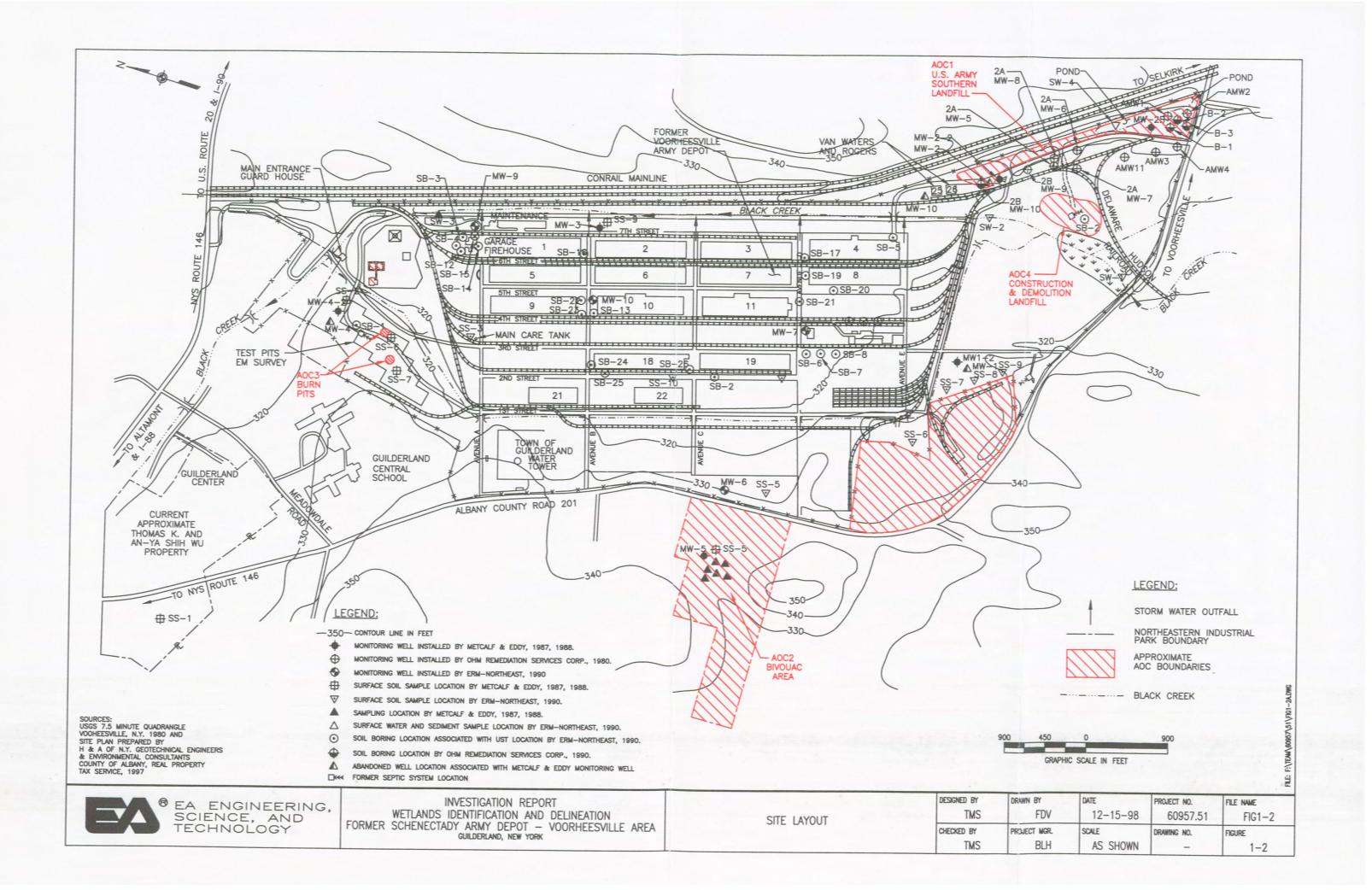
#### 1.4 REPORT ORGANIZATION

This IR—Wetlands Identification and Delineation is comprised of the following sections:

- Chapter 1—Introduction. This chapter presents an introduction to the project, the site, and site history.
- Chapter 2—Summary of Wetlands Identification and Delineation Activities. This chapter presents a brief summary of the activities conducted as part of this investigation.
- Chapter 3—Results of Wetlands Identification and Delineation for AOC1-U.S. Army Southern Landfill. This chapter presents the results of field delineation and characterizes the wetland habitats observed at AOC1 and an additional area adjacent to AOC1 to the west.
- Chapter 4—Results of Wetlands Identification and Delineation for AOC2-The Bivouac Area. This chapter presents the results of field delineation and characterizes the wetland habitats observed at AOC2.
- Chapter 5—Results of Wetlands Identification and Delineation for AOC4-C&D Landfill. This chapter presents the results of field delineation and characterizes the wetland habitats observed at AOC4.
- Chapter 6—Summary. This chapter presents a summary of the IR—Wetlands Identification and Delineation.







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### 2. SUMMARY OF WETLANDS IDENTIFICATION AND DELINEATION ACTIVITIES

#### 2.1 OBJECTIVES

The identification and delineation of wetland habitats within selected areas of the former SADVA was performed to assist USACE with assessing the impact of potential remedial actions on the wetland areas. The three AOCs to be investigated (AOC1, AOC2, and AOC4) were selected based on the potential for remedial activities in these areas and the presence of wetlands on or adjacent to the AOCs according to preliminary mapping data.

The objectives of the study included examining existing mapping data, conducting wetland delineations in the field, preparing site maps with the wetland boundaries, characterizing the wetland habitats, and assessing the jurisdictional considerations for each of the wetland areas based on the applicability of federal, state, or local wetland regulations to the identified wetlands.

#### 2.2 DEFINITION OF SITE AREAS FOR DELINEATION

#### 2.2.1 AOC1-U.S. Army Southern Landfill

The U.S. Army Southern Landfill (Figure 1-2), located in the southeastern corner of SADVA, is referred to as AOC1 by USACE. For purposes of the delineation, the area surveyed for wetlands in the vicinity of AOC1 was expanded from the area described in the Investigation Plan to include the adjacent area to the west of AOC1. The expanded area for the wetland survey around AOC1 is referred to in this report as AOC1W (Figure 2-1) and was added following preliminary evaluation of the boundary between AOC1 and the wetlands and consultation with USACE. AOC1W was defined by the fence extending along the eastern property line and the southern property line. The western limit of the site was extended to a line ranging from 200 to 500 ft west of the existing dirt access road.

#### 2.2.2 AOC2—Biyouac Area

Wetlands identification and delineation on the Bivouac Area encompassed a 40-acre tract (Figure 2-1) on the west side of Route 201 to the utility power line right-of-way at the west end of the property. This area has been identified as AOC2.

#### 2.2.3 AOC4—Construction and Demolition Landfill

The C&D Landfill (Figure 2-1), located in the southeastern corner of SADVA, is referred to as AOC4. For purposes of the delineation, the area surveyed for wetlands in the vicinity of AOC4 was expanded to include additional areas adjacent to AOC4.

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The expanded area for the wetland survey around AOC4 is referred to in this report as AOC4W (Figure 2-1), and was added following consultation with USACE based on preliminary evaluation of the proximity of the AOC to the wetlands.

The area delineated around the C&D Landfill is bounded by the Delaware and Hudson railroad tracks to the south and east (Figure 1-2). The delineation area extended west to the main channel of Black Creek. A man-made ditch was flagged in the field to mark the northern extent of the delineated area of the Black Creek floodplain surrounding the C&D Landfill.

#### 2.3 FIELD DELINEATION METHODS

Wetland resource areas were delineated and flagged in accordance with the routine three parameter approach (hydrophytes, hydric soils, and hydrology) of the 1987 *U.S. Army Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and consistent with the delineation method for the New York State Department of Environmental Conservation (NYSDEC) Freshwater Wetlands Delineation Manual (NYSDEC 1995). Before conducting the field work, a standard analysis of existing map data was conducted according to USACE methods (Environmental Laboratory 1987). This analysis included a review of site base maps, U.S. Geological Survey (USGS 1980) topographic maps, New York State wetlands maps (NYSDEC 1985), Soil Conservation Service (SCS) maps (SCS 1992), and Federal Emergency Management Agency (FEMA 1983) flood plain maps. In addition, as a result of the archival record search to assess site ownership and operational history of the SADVA (conducted as a separate task), aerial photographs of the site area were also examined.

Field surveys were conducted in September-October 1998. At each of the three study areas, a baseline was established along one of the area boundaries. Based on the mapping information, the baseline was established to be parallel, as much as possible, to potential linear wetland or surface water features. At each area, a minimum of three transects were walked perpendicular to the baseline across the entire site to examine the wetland/upland boundaries and wetland habitat types encountered across the area.

Each wetland boundary was flagged in the field with consecutively numbered flags placed at intervals so that they could easily be seen from the previous flag, and generally no more than 50 ft apart. These wetland flags were surveyed and plotted onto existing base maps (Appendix A) by a New York State licensed surveyor.

To document the observations for the three parameters used to define the wetland boundaries, standard wetland delineation sheets, consistent with the data required by the 1987 U.S. Army Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987), were prepared for each major wetland boundary. A representative location was selected at which data were collected for both the wetland and upland conditions. These data sheets summarize the

dominant vegetation present in each layer, and characterize the soil conditions and the local hydrology (Appendix B). Photographs were taken to document the upland and wetland conditions at each of these data points (Appendix C).

#### 2.4 HABITAT CHARACTERIZATION

Field notes were collected, supplemented with mapping data, to characterize the wetland habitat conditions. Features noted for each major wetland area included: major drainage and surface water features, vegetative cover types, soil characteristics, and other physical features that could contribute to habitat quality. Other features noted were: adjacent land use, amount of adjacent habitat disturbance, size of contiguous wetland area, and maturity and diversity of wetland habitat. General information was also recorded on observed use of habitat areas for fish and wildlife, and site conditions affecting water quality, pollution problems, erosion potential, or flood control. Potential problems that could affect habitat quality or use were also noted.

#### 2.5 JURISDICTIONAL DETERMINATION

The wetland areas within AOC1W, AOC2, and AOC4W (Figure 1-2) were delineated in accordance with the three parameter wetland delineation methodologies of the USACE. Upon concurrence with USACE regarding the limits determined for the wetland areas, these wetlands can be regulated as Waters of the United States by the USACE under Section 404 of the Clean Water Act. There is no minimum size necessary for a wetland area to be regulated by the USACE.

For a wetland to be regulated by the State of New York, it must not only meet the field criteria in the delineation manual, but also must meet the criteria of having a minimum size of 12.4 acres; or if smaller than 12.4 acres, meet the standard of "unusual local importance." Wetlands under the jurisdiction of NYSDEC Freshwater Wetlands Law are mapped by NYSDEC on Freshwater Wetland Maps. According to NYSDEC Freshwater Wetlands Mapping and Classification Regulations (6 NYCRR Part 664, Pursuant to Article 24 of the Environmental Conservation Law), NYSDEC alone is responsible for mapping and classifying wetlands. However, the map boundaries are not precise in all areas and may be amended to add a previously unmapped wetland to conform the map to actual onsite conditions. Small changes in the boundaries on the maps can be confirmed in the field by NYSDEC personnel. A site inspection was conducted by NYSDEC on 5 May 1999 to confirm the wetland boundaries. Major changes in the areas regulated by NYSDEC can only be done through a map amendment process including public review and public hearings as specified in NYCRR Part 664.7. Consequently, boundaries of NYSDEC freshwater wetlands include those areas mapped by NYSDEC and those confirmed in the field by NYSDEC as connected to formerly mapped units.

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The Freshwater Wetlands Act regulates activities that may occur in wetlands and their adjacent areas. The adjacent area is a 100-ft buffer zone surrounding the mapped wetland.

Pursuant to Article 24 of the Environmental Conservation Law, the Freshwater Wetlands are also classified (Section 664.5, NYSDEC Freshwater Wetlands Mapping and Classification Regulations Act). The classification system establishes four ranked regulatory classes of wetlands, depending upon habitat characteristics and the resulting benefits supplied by the wetlands. The classification (from Class I to Class IV), with Class I wetlands having the highest assessed benefits, then determines the activities that may be permitted in a wetland type and/or its adjacent area. Almost any activity that impacts the functions and values of a wetland is regulated. These activities include, but are not limited to: construction, grading, filling, excavation, and draining.

As of 1975, the New York State Freshwater Wetlands Act allowed local governments to assume jurisdiction over wetland regulatory programs (U.S. EPA 1993). However, this has not been a common practice in New York. According to the Town of Guilderland Planning Department, there are no additional local wetland by-laws or ordinances, and regulation of wetlands is solely based on the relevant state and federal regulations summarized previously.

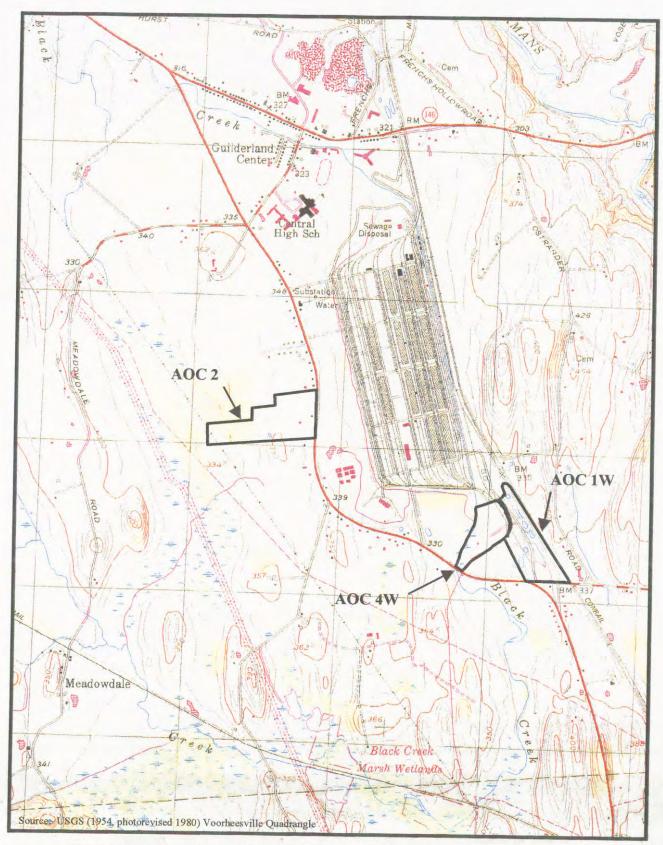


Figure 2-1. Location of wetland investigation areas at the former Schenectady Army Depot-Voorheesville Area.



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## 3. RESULTS OF WETLANDS IDENTIFICATION AND DELINEATION FOR AOC1 — U.S. ARMY SOUTHERN LANDFILL

#### 3.1 RESULTS OF ANALYSIS OF EXISTING SITE RESOURCE MAPS

The U.S. Army Southern Landfill (AOC1) is located at the southernmost end of SADVA (Figure 1-2). The area for the wetland survey included AOC1 and the property immediately to the west of AOC1. The area surveyed for wetlands around AOC1 is referred to herein as AOC1W. USGS mapping (Figure 2-1) indicates a series of six small ponds east of the access road through AOC1W, and three additional small ponds west of the access road (USGS 1954, photorevised 1980). The other mapping resources also indicate a series of ponds in this area. SCS (1992) indicates the ponds are located within a map unit labeled as loamy Udorthents (Figure 3-1). These are loamy soils that resulted from human activities, such as cuts and fills in loamy uplands. The other soil series mapped within AOC1W by SCS is the Wayland Series, which are poorly and very poorly drained soils on flood plains. Wayland Series is listed as a hydric soil in the Hydric Soils of the United States (SCS 1988), which indicates these are soils that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions (SCS 1988). Hydric soils are considered wetland soils since they are typically developed under hydrologic conditions that support wetland vegetation.

The NYSDEC Freshwater Wetlands map (NYSDEC 1985) (Figure 3-2) shows the extent of the six small ponds similar to the USGS mapping, with the southernmost pond larger than on the USGS map. The ponds east of the access road are not included as jurisdictional wetlands on the NYSDEC wetlands map. However, one lobe of the Black Creek wetland system (V-19) is shown on the NYSDEC map within AOC1W. The state wetland boundary comes within approximately 200 ft of the access road, and excludes one small pond west of the access road.

The Flood Insurance Rate Maps (FEMA 1983) indicate the majority of AOC1 is outside the 500-year flood boundary (Figure 3-3). The area west of the access road, which corresponds roughly to the location of the mapped NYSDEC wetland boundary, is within the 100-year flood zone (Zone A5) of Black Creek, with a small bordering area within the 500-year flood boundary (Zone B).

There was significant human activity throughout AOC1W evident in even the earlier aerial photos (1942 and 1943). The ponds present in the most recent decades were not apparent on the 1940s photos, however, in the 1940s and 1950s most of AOC1W appears to have been cleared of vegetation. Surface water features appear along the eastern edge of AOC1 in the early 1970s, fairly consistent with the location of the ponds observed in the other mapping data. Changes in the extent of the floodplain wetland in the southwestern corner are difficult to discern from the aerial photographs.

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#### 3.2 RESULTS OF THE FIELD DELINEATION

Wetland delineations were conducted at AOC1W at the former SADVA between 21 September 1998 and 20 October 1998. A baseline was established along the access road that bisects AOC1W. Transects were walked east and west to the area boundaries at three locations, approximately at the center of the area near Flag A34 and 900 ft north (Flag A9) and south (Flag A63) of the center (Sheet S-1, Appendix A). Data for test plots were collected at the locations of wetland Flags A9, A34, A63, D5, J20, K43, and N31 (Appendix B, data sheets).

The field conditions generally confirmed the offsite mapping analysis. The majority of AOC1W and AOC1 consists of disturbed soils. The area also includes a series of man-made wetland features, including emergent marsh, open water (ponds), and ditches surrounded by disturbed soil, roads, and railroad beds. In addition, a small area of the outer extent of the floodplain wetlands associated with Black Creek, and located on largely undisturbed soils, exists in the southwestern corner of AOC1W.

The A-series wetland flags delineated the boundary of the pond/marsh system along the eastern area boundary. The wetland system consists of a series of man-made ponds between the access road and the fence at the property line (Appendix C, Figures C-1 through C-5). The E-series, F-series, and G-series flags marked small areas of upland along the eastern property line (Appendix A, Sheet S-1). The upland peninsulas at wetland Flags A42 and F6 mark berms that separate the individual wetland basins. The largest pond is furthest south (Appendix C, Figure C-3). Although the water depths appeared to be shallow (0.5 up to possibly 2 ft), emergent vegetation (dominated by cattails [Typha spp.] and purple loosestrife [Lythrum salicaria]) was visible only along the borders, especially on the east side. South of the open water is a wet meadow in disturbed soils extending to the southeastern corner of the area at Flag A72 (Appendix C, Figure C-1). The vegetation in the meadow is dominated by switchgrass (Panicum virgatum), purple loosestrife, and common reed (Phragmites australis) (Appendix C, Figure C-9).

North of Flag A42 is a small basin dominated by emergent wetland species, mainly purple loosestrife and cattails (Appendix C, Figure C-2). This wetland appears to be connected to the southern pond across the berm, just east of Flag A42. The boundary along the access road is abrupt, with the wetlands at the base of a steep bank. The banks are dominated by stiff or gray dogwood (*Cornus foemina*). This species is a facultative wetlands species and is common throughout AOC1W along the wetland borders.

Similarly, another wetland basin is located north of a second berm at Flags F6 and F7 (Appendix A, site plans). The northern pond is also small and dominated by cattails. The area within the wetland north of A27 is also dominated by emergent vegetation with shrub borders. North of wetland Flag A9, is an area of wet meadow (Appendix A, data sheet at A9) at the base

of an open field (Appendix C, Figure C-5). Although topography data for the area are limited, it appears that the A-series flagged wetlands are hydrologically connected to AOC4W and the Black Creek drainage, through culverts under the access road and railroad bed.

There are three small wetlands, dominated mainly by purple loosestrife, along the southern boundary of AOC1W. The C-, D-, and E-series flags mark ditches in disturbed soil dominated by invasive wetland plants (Appendix B, data sheet D5; Appendix C, Figures C-6, C-7, and C-8).

West of the access road which bisects AOC1W north to south is another series of wetlands. These wetlands occur largely on disturbed soils and were created by human activity in the area. The I-, J-, K-, and L-series wetlands are wet swales or ditches formed along railroad beds (existing or former) or access roads (Appendix B, data sheets at J20 and K43; Appendix C, Figures C-10 and C-11). The K-series follows piles of fill and old railroad beds. A large pile of railroad ties was located near K-14.

The M-series is also between the access road and a former railroad embankment (M22 through M48). A small pond (man-made) is located at the north end of the M-series.

The N-series wetland delineates the upper boundary of a larger forested wetland to the south. The wetland is in the vicinity of the mapped extent of NYSDEC wetland V-19 (Figure 3-2), but is larger and extends further to the east than shown on the NYSDEC map. The majority of the wetland is forested, with the exception of the southern area (south of Flag N31) which is emergent marsh and wet meadow bordered by scrub/shrub habitat (Appendix B, data sheets at N31).

#### 3.3 REGULATORY JURISDICTION

The wetland areas within AOC1 were delineated in accordance with the three parameter wetland delineation methodology of USACE. These wetlands can be regulated as Waters of the United States by USACE under Section 404 of the Clean Water Act. There is no minimum size necessary for a wetland area to be regulated by the USACE. Man-made wetlands, meeting the delineation criteria, may also be regulated. Any proposed action for dredge or fill in jurisdictional wetlands may require a permit from the USACE.

For a wetland to be regulated by the State of New York, it must not only meet the field criteria in the delineation manual, but also must meet the criteria of having a minimum size of 12.4 acres; or if smaller than 12.4 acres, meet the standard of "unusual local importance." Wetlands under the jurisdiction of NYSDEC Freshwater Wetlands Law are mapped by NYSDEC on Freshwater Wetland maps. Within AOC1W, the wetland boundary from N1 to N47 is further east than the mapped NYSDEC wetland boundary. A field inspection conducted with a representative of NYSDEC to review the onsite conditions and wetland boundaries confirmed that the boundaries mapped in the field represent the extent of wetland V-19 within the project area. This wetland is classified as Class I wetlands by NYSDEC. This classification indicates that these wetlands

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provide important benefits. Any activity in the wetland, or within the 100-ft adjacent area, will require a permit from NYSDEC, unless the activity is exempt according to the Freshwater Wetlands Act and 6 NYCRR663.

#### 3.4 HABITAT CHARACTERIZATION

Two separate wetland systems were identified within AOC1W. The first is the pond/marsh system along the eastern area boundary, including the disturbed wetland habitats west of the access road. The second system is the large, predominantly forested wetland marked by the N-series. The habitat quality of the first wetland system is relatively low while the second system (N-series) may have much higher habitat values.

The disturbed wetlands surrounding the U.S. Army Southern Landfill are man-made wetlands on disturbed soils. These wetlands perform a number of important functions, but do not represent significant or unique habitat. The surrounding land use includes the Industrial Park, active rail activities along the eastern side of the area, and County Road 201. These land uses limit some habitat values for wildlife species that are sensitive to human activity during feeding or nesting activities.

The series of ponds as well as the created ditches and swales perform flood storage functions, although the wetlands in this system are outside of the 100-year flood zone of Black Creek (Figure 3-3). The basins and ponds in the A-series wetland likely provide moderate to high sediment and nutrient retention functions, in addition to stormwater attenuation functions. Although the vegetation within the A-series wetland is dominated by invasive species and is not extensive or diverse, a variety of wildlife and waterfowl were observed using the pond/marsh habitat. Small fish were observed in the large pond at the south end of the area and were tentatively identified as large mouth bass (*Micropterus salmoides*). In addition, osprey were observed feeding in the pond on several different days. Other wildlife observed utilizing the area included belted king-fisher and great blue heron. Amphibians and reptiles (e.g., garter snakes and frogs) were also common around the A-series wetlands. The B-, C-, and D-series wetlands are essentially wet ditches, created in disturbed soils, with no significant functions or values.

Similarly, the disturbed wetlands west of the access road (Flag Series J, K, L, and M) delineate predominantly linear wetlands features (created ditches) along railroad beds, piles of fill or access roads. These wetlands have low diversity, and the herbaceous communities are dominated by invasive species including cattails, purple loosestrife, and common reed, and provide limited value as wildlife habitat. The major functions of these wetlands are to allow stormwater conveyance, and potentially retain some sediment and nutrients from runoff.

The soils in the western half of AOC1W (Appendix A, N-Series, Site Plans) appear to be relatively undisturbed to the south. Outside of the forested habitat, there is evidence of earlier disturbance. The majority of the wetland in the N-series is forested and represents the upper boundary forested wetland bordering the flood plain of Black Creek. This wetland is within the

100-year floodplain of Black Creek and consequently could perform significant flood storage functions. As the wetland is forested, and contiguous with a larger wetland system along Black Creek, it has the potential to be high quality habitat for wildlife and waterfowl. The location of this wetland within SADVA, with restricted public access, limits the potential recreational and education functions potentially provided by the wetland.

A request for information on the potential occurrence of rare or endangered species, natural communities, or other significant habitats in the vicinity of the area was submitted to NYSDEC's Natural Heritage Program. The Natural Heritage Report indicates a possible occurrence of Valeriana uliginosa (marsh valerian), a vascular plant species, which is state-listed as threatened (Appendix D, NYSDEC letter from T. Mackey, dated 30 October 1998). According to the report, this plant may occur within the project area in appropriate habitat. The plant is known to occur on wet soils in wet meadows or swamps (Gleason and Cronquist 1963). No other occurrence of endangered species, threatened or special concern wildlife species, rare plant. animal, or natural community were identified in their files (Appendix D, NYSDEC letter from T. Mackey, dated 30 October 1998).

A request for information on the presence of endangered or threatened species in the vicinity of SADVA was also submitted to the U.S. Fish and Wildlife Service (USFWS). There are no federally listed or proposed threatened or endangered species known to exist in the project area (Appendix D, USFWS letter from S. Morgan, dated 4 November 1998).

Overall, the large natural wetland system in the western part of AOC1W (N-series) has higher wetland functions and values than the man-made wetlands along the eastern boundary. Both wetland areas are likely to provide some flood storage and stormwater detention functions. Both areas provide some wildlife habitat functions. However, the disturbed and/or created wetland habitats, dominated mainly by low diversity, invasive species on the eastern side, could much more readily be replaced by newly constructed habitats onsite, that would provide similar functions.

Many of the wetland boundaries along the west side of the A-series wetlands, and the roadside ditches, have very steep banks that reduce the habitat value and increase the erosion potential of these areas. In addition, much of the wetland areas in AOC1W, outside of the N-series are located on fill material. These soils are low in organic content, and range from compacted mineral soils high in silt content to coarse fill. These poor quality soil conditions may contribute to the relatively high proportion of invasive species inhabiting the wetland.

#### 3.5 RECOMMENDATIONS FOR MANAGEMENT

Disturbance of any portion of the forested wetland of the N-series should be avoided or minimized. Any remedial actions undertaken within the forested wetland boundary should adhere to strict erosion and sedimentation control practices to prevent discharge of sediment

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to the wetland. Any unavoidable disturbance of these wetland areas should include a plan to restore wetland functions within the wetland.

Any remedial alternatives impacting the remaining wetland areas on AOC1W should include mitigation to enhance wetland functions on the site. These alternatives may include improving the slopes on the wetland banks, improving the quality of the substrate, and/or attempting to control/replace invasive plant species with vegetation that will provide higher habitat quality for wildlife.

Due to the possible occurrence of the state-listed plant, marsh valerian, in wetland habitats in the vicinity of the former SADVA, an onsite survey for this species is likely to be required prior to disturbance of wetland habitat. Since there is no evidence of the occurrence of federally-listed threatened or endangered species in the project area, no Biological Assessment or further consultation under Section 7 of the Endangered Species Act will likely be required for remedial activities at the former SADVA.

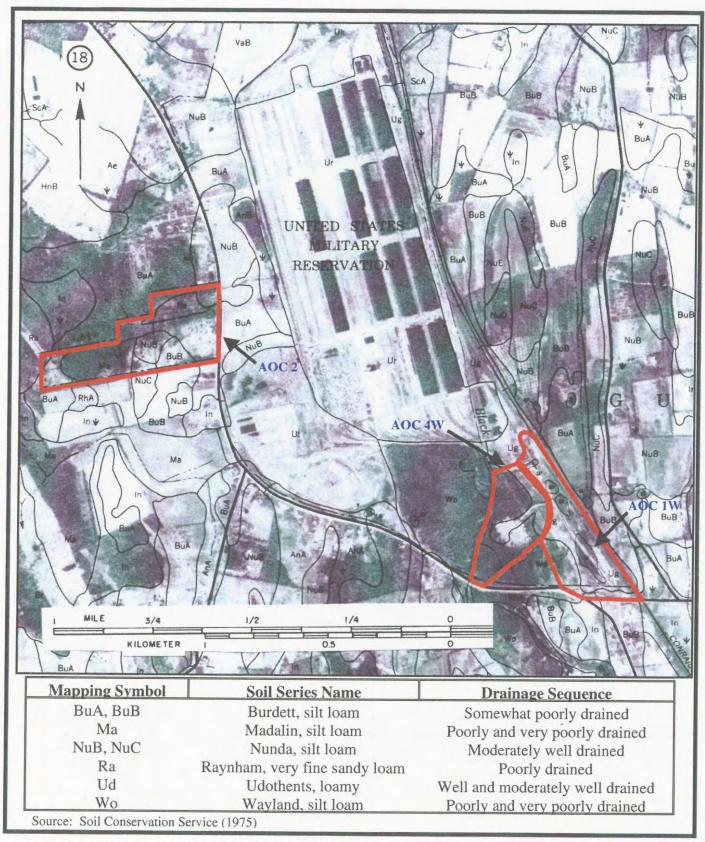


Figure 3-1. Soil map for the vicinity of the former Schenectady Army Depot-Voorheesville Area.



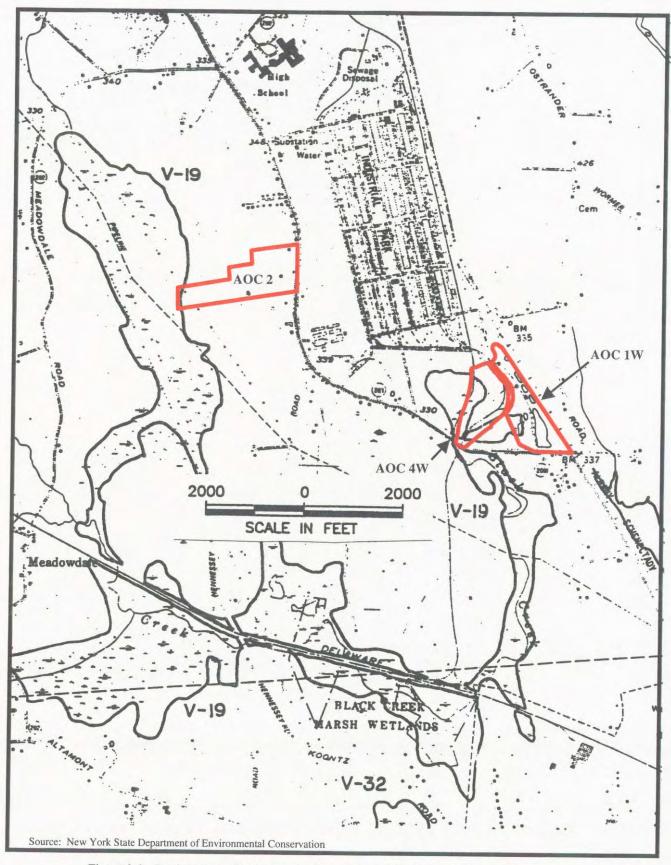


Figure 3-2. Freshwater wetlands map for the vicinity of the former Schenectady Army Depot-Voorheesville Area.



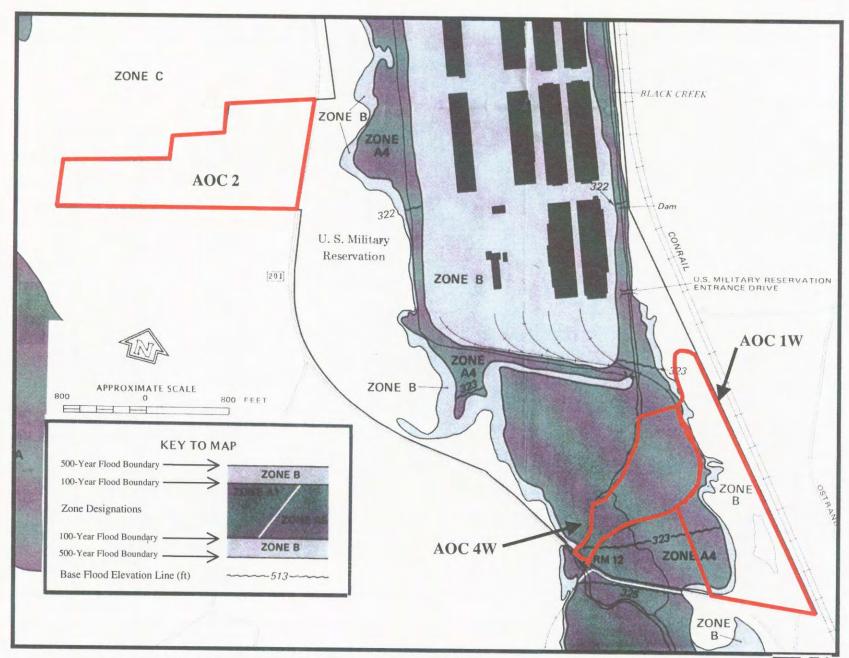


Figure 3-3. Flood zone map in the vicinity of the former Schenectady Army Depot-Voorheesville Area.

### 4. RESULTS OF WETLANDS IDENTIFICATION AND DELINEATION FOR AOC2 — THE BIVOUAC AREA

#### 4.1 RESULTS OF OFFSITE MAPPING ANALYSIS

The Bivouac Area (AOC2) is located (Figure 2-1) on the west side of Route 201 across from SADVA proper. The area for the wetland survey for AOC2 included the 40-acre tract. The site consists of a residence and outbuildings, including a barn, bordering Route 201. In general, the parcel slopes from east to west, with a small knoll located along the southern property line (USGS 1954, photorevised 1980). The only surface water feature shown on the USGS map is a small pond along the southern property line, which was not located in the field. In addition, the USGS map shows an extensive wetland west of AOC2. From the 1980 mapping, the western end of the area appeared to be forested, while the area from the knoll and around the buildings to the east, was not vegetated. This area is currently mowed and maintained as pasture.

The majority of AOC2 was mapped as somewhat poorly drained Burdett Series soils (SCS 1992) (Figure 3-1). The higher elevations in the center of the area were mapped as moderately well-drained Nunda soils. Two areas of hydric soils are mapped on the property. The majority of the forested area at the western end of the AOC2 corresponds to an area of very poorly drained Madalin soils on the SCS map (SCS 1992) (Figure 3-1). The other soil series mapped within AOC2 by SCS is an area of poorly drained Raynham soils to the northeast. Both the Madalin and Raynham Series are listed as hydric soils in the *Hydric Soils of the United States* (SCS 1988), which indicates these are soils that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions (SCS 1988). Hydric soils are considered wetland soils since they are typically developed under hydrologic conditions that support wetland vegetation.

The NYSDEC Freshwater Wetlands map (NYSDEC 1985) (Figure 3-2) shows a small portion of the Black Creek wetland system (V-19) that intersects the northern end of AOC2. According to the Flood Insurance Rate Maps (FEMA 1983), AOC2 is located outside both the 100- and 500-year flood boundaries (Figure 3-3).

The majority of the forested area, as shown on the 1980 USGS map, was forested on the aerial photographs from 1942 into the 1970s. The remainder of AOC2 was cleared until the 1970s. Aerial photos from 1986 and 1995 indicate that, in recent decades, the northeastern corner of AOC2 has been left relatively undisturbed and has matured to scrub/shrub and forested vegetative cover over this time period. In addition, the aerial photography indicates a pond was created on the site between 1986 and 1995, approximately 500 ft north of the barn.

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#### 4.2 RESULTS OF THE FIELD DELINEATION

Wetland delineations were conducted at AOC2 between 20 October 1998 and 27 October 1998. A baseline was established along County Road 201. Transects were walked east to west across the area at three locations, approximately at the center of the area, and approximately 100 ft from the property line on both the north and south edges of the site (Appendix A, Sheet S-1, Sheet 2 of 2). Data for test plots were collected at the locations of wetland Flags O3/O4, O37, O64, and Q1 (Appendix A, data sheets).

One major wetland complex was identified at AOC2. This complex is made up of a number of different habitat types. The wetland area west of wetlands Flags O1 through O36 is predominantly forested hardwood swamp (Appendix A, Sheet S-2). The southernmost edge of the wetland is within a power line right-of-way, and is dominated by scrub-shrub and wetland meadow communities where the canopy cover has been removed. Also along higher elevations within the western wetland, near the monitoring well and in the vicinity of Flags O7 to O21, the margin of the wetland is dominated by stiff dogwood. The adjacent forested margin at O3/O4 is dominated by red maple and slippery elm (*Ulmus rubra*) (Appendix B, data sheets). The more mature forested wetland extending to the west along the Q-flagged series is dominated by swamp white oak (*Quercus bicolor*) and red maple in the overstory, with high bush blueberry a common shrub (Appendix C, Figure C-16). The herb layer in the wetland was dominated by sedges. Within this forested wetland, the Q-, R-, S-, and T-flag series represent islands of uplands (Appendix C, Figure C-17), mainly dominated by American beech (*Fagus grandifolia*) and Eastern hemlock (*Tsuga canadensis*).

The wetlands delineated by Flags O36 through O51 include a man-made pond and a wet meadow swale created by the pond construction. The remainder of the wetland area on the eastern side of AOC2 is an immature, secondary growth forest (elm/ash) with a dense understory of stiff dogwood. This appears to be an area of seasonally saturated soils, consistent with the mapped Raynham soil series.

A roadside ditch was delineated along part of the property bordering County Road 201. The U-series, V-series, and a portion of the O-series (O78 through O84) also mark small areas of man-made wetland in the roadside ditch.

#### 4.3 REGULATORY JURISDICTION

The wetland areas within AOC2 were delineated in accordance with the three parameter wetland delineation methodologies of the USACE. These wetlands can be regulated as Waters of the United States by USACE under Section 404 of the Clean Water Act. There is no minimum size necessary for a wetland area to be regulated by USACE. Man-made wetlands, meeting the delineation criteria, may also be regulated.

For a wetland to be regulated by the State of New York, it must not only meet the field criteria in the delineation manual, but also must meet the criteria of having a minimum size of 12.4 acres; or, if smaller than 12.4 acres, meet the standard of "unusual local importance." Wetlands under the jurisdiction of NYSDEC Freshwater Wetlands Law are mapped by NYSDEC on Freshwater Wetland maps. Within AOC2, the wetland boundary along the O-series is much farther east than the mapped NYSDEC wetland boundary. A field inspection conducted with a representative of NYSDEC to review the onsite conditions confirmed the boundaries represent the extent of wetland V-19 within the project area. The wetland areas along Route 201 delineated by the U-series, the V-series, 078-084, and the created pond (036-051) do not correspond to state wetland boundaries (Appendix A Site Plans). Any activity in the wetland, or within the 100-ft adjacent area, will require a permit from NYSDEC, unless the activity is exempt according to the Freshwater Wetlands Act and 6NYCRR663. These wetlands are classified as Class I wetlands by NYSDEC, indicating that they provide important benefits.

#### 4.4 HABITAT CHARACTERIZATION

The forested wetland areas at AOC2 vary in maturity and habitat value. The wetlands on the western segment of AOC2 have been less disturbed historically and represent a well developed, relatively mature forested community. As the wetland is forested, and contiguous with a larger wetland system along Black Creek, it has the potential to provide high quality habitat for wildlife and waterfowl. This area also has the potential to provide some flood storage and stormwater functions as it is connected to the Black Creek system. However, the wetland on AOC2 is outside of the 100-year flood zone. The location of this wetland on private property, with no public access, limits the potential recreational and education functions potentially provided by the wetland. This forested wetland provides aesthetic values in developing landscape, surrounded by industrial, residential, and agricultural uses.

The lowest quality habitat within the wetlands on the site is the disturbed vegetation within the power line right-of-way along the southern property boundary and the scrub/shrub border of the forested wetland. This scrub/shrub border extends along the wetland boundary from approximately Flag O7 to O17 and varies in width up to approximately 100 ft. The soils in this area appear disturbed and the vegetation is nearly mono-typic stiff dogwood.

The disturbed wetland habitat at the edge of the pasture and residential part of the property provides some habitat functions. The pond has been stocked by the owners and is also used by muskrat. The wet meadow area surrounding the pond is maintained as a mowed pasture. Although it is not the purpose of this report to document the former extent of wetlands prior to construction of the pond, aerial photos and field evidence indicate the pond and surrounding berm were likely constructed in seasonally saturated wet meadow and scrub/shrub habitat which was formerly contiguous with the wetlands from O51 to O63 (Appendix A, Sheet S-2). The scrub/shrub and forested wetland east of the pond toward Road 201 (Appendix A, Sheet S-2) has been more recently disturbed. This area appears to be influenced by seasonally high groundwater conditions and may have limited flood attenuation or stormwater protection functions. The vegetation in this area is not mature or diverse, but is likely to provide habitat for some wildlife species, particularly song birds. The adjacent roadside ditches are not important wetland habitat, but provide obvious drainage functions.

A request for information on the potential occurrence of rare or endangered species, natural communities, or other significant habitats in the vicinity of the AOC was submitted to NYSDEC's Natural Heritage Program. The Natural Heritage Report indicates a possible occurrence of Valeriana uliginosa (marsh valerian), a vascular plant species, which is state-listed as threatened (Appendix D, NYSDEC letter from T. Mackey, dated 30 October 1998). According to the report, this plant may occur within the project area in appropriate habitat. The plant is known to occur on wet soils in wet meadows or swamps (Gleason and Cronquist 1963). No other occurrence of endangered species, threatened, or special concern wildlife species, rare plant, animal, or natural community were identified in their files (Appendix D, NYSDEC letter from T. Mackey, dated 30 October 1998).

A request for information on the presence of endangered or threatened species in the vicinity of SADVA was also submitted to the USFWS. There are no federally listed or proposed threatened or endangered species known to exist in the project area (Appendix D, USFWS letter from S. Morgan, dated 4 November 1998).

### 4.5 RECOMMENDATIONS FOR MANAGEMENT

The majority of the obvious waste materials (bottles and barrels) in the surface soil were located in the uplands east of the wetland line from O1 to O4. Some materials in the wetland were observed near Flags O1 through O4. The area of wetland adjacent to the waste material is secondary forest and is located at the extreme upland extent of the wetland. If any remedial activity is required in this area, it should be accessed from the adjacent upland so disturbance of this forested wetland on the western part of AOC2 can be avoided or minimized. Remedial actions undertaken within the forested wetland boundary should adhere to erosion and sedimentation control practices to prevent discharge of sediment to the wetland and minimize impacts on the mature trees.

Remedial alternatives impacting the remaining wetland areas on AOC2 could include mitigation to restore or enhance wetland functions in impacted areas.

Due to the possible occurrence of the state-listed plant, marsh valerian, in wetland habitats in the vicinity of the former SADVA, an onsite survey for this species is likely to be required prior to disturbance of wetland habitat. Since there is no evidence of the occurrence of federally-listed threatened or endangered species in the project area, no Biological Assessment or further consultation under Section 7 of the Endangered Species Act will likely be required for remedial activities at the former SADVA.

### 5. RESULTS OF WETLANDS IDENTIFICATION AND DELINEATION FOR AOC4 — C&D LANDFILL

#### 5.1 RESULTS OF OFFSITE MAPPING ANALYSIS

The C&D Landfill (AOC4) is located near the southern end of SADVA (Figure 2-1). The area for the wetland survey included AOC4, the property immediately surrounding the landfill on all sides, and extending east to the main channel of Black Creek. The area delineated around the C&D Landfill is bounded by the Delaware and Hudson railroad tracks to the south and east. The area surveyed for wetlands around AOC4 is referred to herein as AOC4W.

USGS mapping (Figure 2-1) shows the location of Black Creek and its associated wetlands, west of the C&D Landfill (USGS 1954, photorevised 1980). According to the USGS map, the access road to the C&D Landfill, and small building in the area, were constructed between 1954 and the photorevised map of 1980.

The footprint of the area cleared for the C&D Landfill is visible on the Soil Survey map (SCS 1992, Figure 3-1). The landfill area itself is mapped as loamy Udorthents (Figure 3-1). The remainder of AOC4W was mapped as Wayland Series soils, which are poorly and very poorly drained soils on floodplains. Wayland Series is listed as a hydric soil in the *Hydric Soils of the United States* (SCS 1988), which indicates these are soils that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions (SCS 1988). Hydric soils are considered wetland soils since these are generally soils that are developed under conditions that have hydrology consistent with the ability to support wetland vegetation.

The NYSDEC Freshwater Wetlands map (NYSDEC 1985, Figure 3-2) shows a small portion of the Black Creek wetland system (V-19) intersecting the western half of AOC4W. The Flood Insurance Rate Maps (FEMA 1983) show AOC4W within the 100-year flood boundaries (Figure 3-3).

In the 1943, aerial photography of SADVA, the area of AOC4W appears to be cleared, and possibly under cultivation. In this photo, it also appears that there are series of braided channels, flooded with water throughout the majority of AOC4W. Photos taken after 1973 (1973, 1986, and 1995) show the footprint of the C&D Landfill surrounded by forested habitat.

#### 5.2 RESULTS OF THE FIELD DELINEATION

Wetland delineations were conducted at AOC4W between 24 September 1998 and 20 October 1998. A baseline was established along the Delaware and Hudson Railroad bed at the southern property line. Transects were walked south to north across the area at three locations,

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approximately at the center of the area, and approximately 100 ft from the SADVA property line on both the north and south edges of the area (Appendix A, Sheet S-1). Data for test plots were collected at the locations of wetland Flags H23, H64, and H69 (Appendix B, data sheets).

The wetland surrounding the C&D Landfill was delineated with Flag H1, at the northwest corner, to Flag H78 at the bank of Black Creek near the culvert under Route 201. The wetlands surrounding AOC4 are forested floodplain wetlands associated with Black Creek (Appendix C, Figures C-18 through C-21). The wetland extends to the toe of the slope of the C&D Landfill, surrounding the landfill on all but the southeastern quadrant.

The observed soils in most of the wetlands were consistent with the mapped Wayland Series. The vegetation in the wetland is characterized by secondary growth forest, dominated by silver maple, red maple, and green ash. The majority of the wetlands at AOC4W had limited amounts of shrub and herbaceous understory, which are characteristic of floodplain wetlands. The upland/wetland boundary along most of the H-series flagged line is formed by the toe of the slope of the landfill, access road, or the edge of the railroad bed.

### 5.3 REGULATORY JURISDICTION

The wetland areas within AOC4W were delineated in accordance with the three parameter wetland delineation methodologies of USACE. These wetlands can be regulated as Waters of the United States by USACE under Section 404 of the Clean Water Act. There is no minimum size necessary for a wetland area to be regulated by the USACE. Any proposed action for dredge or fill in jurisdictional wetlands may require a permit from the USACE.

For a wetland to be regulated by the State of New York, it must not only meet the field criteria in the delineation manual, but also must meet the criteria of having a minimum size of 12.4 acres; or, if smaller than 12.4 acres, meet the standard of "unusual local importance." Wetlands under the jurisdiction of NYSDEC Freshwater Wetlands Law are mapped by NYSDEC on Freshwater Wetland maps. Within AOC4W, the wetland boundary from H1 to H69 is further east than the mapped NYSDEC wetland boundary. A field inspection conducted with a representative of NYSDEC to review the onsite conditions and wetland boundaries confirmed that the boundaries mapped in the field represent the extent of wetland V-19 within the project area. The majority of the area of AOC4W is within mapped NYSDEC wetlands. This wetland is classified as Class 1 wetlands by NYSDEC. This classification indicates that these wetlands provide important benefits. Any activity in the wetland, or within the 100-ft adjacent area, will require a permit from NYSDEC, unless the activity is exempt according to the Freshwater Wetlands Act and 6 NYCRR663.

#### 5.4 HABITAT CHARACTERIZATION

The soil and vegetation characteristics of the wetland surrounding the C&D Landfill in AOC4W indicate this wetland is seasonally saturated, and to some extent flooded from periods extending from November to June. During a site visit in June 1998, inundation from flooding of Black Creek was observed in the vicinity of wetland Flag H69.

The soil in the western half of AOC4W appears to be relatively undisturbed; however, to the east, closer to AOC1, there is evidence of earlier disturbance. In this area, there are a series of shallow ditches and low berms running roughly parallel to the railroad tracks. In addition, there is a man-made ditch forming the northern boundary of the AOC, which connects the pond system in AOC1W to Black Creek.

A request for information on the potential occurrence of rare or endangered species, natural communities, or other significant habitats in the vicinity of the AOC was submitted to NYSDEC's Natural Heritage Program. The Natural Heritage Report indicates a possible occurrence of *Valeriana uliginosa* (marsh valerian), a vascular plant species, which is statelisted as threatened (Appendix D, NYSDEC letter from T. Mackey, dated 30 October 1998). According to the report, this plant may possibly occur within the project area in appropriate habitat. The plant is known to occur on wet soils in wet meadows or swamps (Gleason and Cronquist 1963). No other occurrence of endangered species, threatened or special concern wildlife species, rare plant, animal, or natural community were identified in their files (Appendix D, NYSDEC letter from T. Mackey, dated 30 October 1998).

A request for information on the presence of endangered or threatened species in the vicinity of SADVA was also submitted to the USFWS. There are no federally listed or proposed threatened or endangered species known to exist in the project area (Appendix D, USFWS letter from S. Morgan, dated 4 November 1998).

Floodplain forest communities are hardwood forests occurring on mineral soils in river floodplains. These communities are distributed throughout upstate New York, and have a state rank of G3G4/S2S3, which indicates these communities have limited acreage in New York State and are potentially vulnerable (Reschke 1990).

This floodplain wetland is a moderately mature forest characterized by high habitat value. The size of the trees is consistent with the aerial photography data indicating the growth is 40-50 years old in most areas of the wetland, especially closer to Black Creek.

The assessment of the habitat quality as relatively high is based on a number of features of the wetland. The wetland in AOC4W is part of a large contiguous wetland system along Black Creek and its tributaries. The size and relative maturity of the floodplain wetland increases its potential to serve as good wildlife habitat. The floodplain wetland serves a variety of important functions. Floodplain wetlands serve important flood storage capacity functions,

providing the drainage basin with a natural stormwater retention capacity. The size and proximity of the wetland to urban development also indicates the importance of providing open space and aesthetic benefits. The location of this wetland within SADVA, with restricted public access, limits the potential recreational and education functions potentially provided by the wetland.

#### 5.5 RECOMMENDATIONS FOR MANAGEMENT

Disturbance of the floodplain forest beyond the toe of the slope of the C&D Landfill should be avoided. Remedial actions undertaken along the landfill/wetland boundary should adhere to erosion and sedimentation control practices to prevent discharge of sediment to the wetland. Remedial actions impacting the landfill/wetland boundary could include mitigation such as stabilization of the base of the bank of the C&D Landfill material in order to prevent potential erosion of material into the wetland. In some areas, especially in the vicinity of wetland Flags H25 through H62, landfill material surrounds the trunks of large trees. It is recommended that remedial action involving removal of this material be conducted in a manner that attempts to protect these trees and minimize disturbance to adjacent wetlands.

Due to the possible occurrence of the state-listed plant, marsh valerian, in wetland habitats in the vicinity of the former SADVA, an onsite survey for this species is likely to be required prior to disturbance of wetland habitat. Since there is no evidence of the occurrence of federally-listed threatened or endangered species in the project area, no Biological Assessment or further consultation under Section 7 of the Endangered Species Act will likely be required for remedial activities at the former SADVA.

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#### 6. SUMMARY

The identification and delineation of wetland habitats was conducted in three AOCs (AOC1, AOC2, and AOC4) within the SADVA during the Fall of 1998. The study included examining existing mapping data, conducting wetland delineations in the field, preparing site maps with the wetland boundaries, characterizing the wetland habitats, and assessing the jurisdictional considerations for each of the wetlands based on the applicability of federal, state, or local wetland regulations to the identified wetlands.

Both state and federally regulated wetlands were identified and delineated within each AOC. There are portions of forested or forested floodplain wetlands within the limits of the three AOCs.

The majority of the wetlands contained in AOC1W and AOC1 proper include a series of wetland ponds and emergent marsh habitat that were created through human activities and developed on disturbed soils. Proposed activities to implement remedial actions within AOC1 could include mitigation to enhance wetland functions in this AOC. There is an area of forested wetland within the southwest corner of AOC1, which should be managed similarly to the wetlands surrounding AOC4, as discussed below.

Wetlands surrounding AOC4 are forested floodplain wetlands, and are regulated by both USACE and NYSDEC. Remedial alternatives that would potentially impact wetlands will require review and permits from both agencies. Disturbance of the forested wetland should be avoided or minimized. In addition, proposed activities within the 100-ft adjacent area surrounding the wetlands regulated by NYSDEC may also be regulated by NYSDEC in order to ensure protection of wetland functions in these Class I wetlands. This classification indicates these wetlands provide important wetland functions and protection of the wetlands is of concern due to these significant benefits. The benefits include flood storage protection, sediment and nutrient retention, and very high habitat value.

AOC2 (approximately 40 acres) includes several wetland habitats. The highest habitat quality area is the forested wetland in the western end of the property. This wetland is contiguous with NYSDEC wetland V-19, and will be regulated by both USACE and NYSDEC as discussed above for AOC1 and AOC4. Regulation of the 100-ft adjacent area will also apply to any NYSDEC wetland boundary. The wetlands in the eastern half of AOC2 are a mixture of scrub/shrub, forested, and created wetland habitats. Isolated wetlands along Route 201 and created wetlands around the man-made pond will be regulated by USACE but not by NYSDEC.

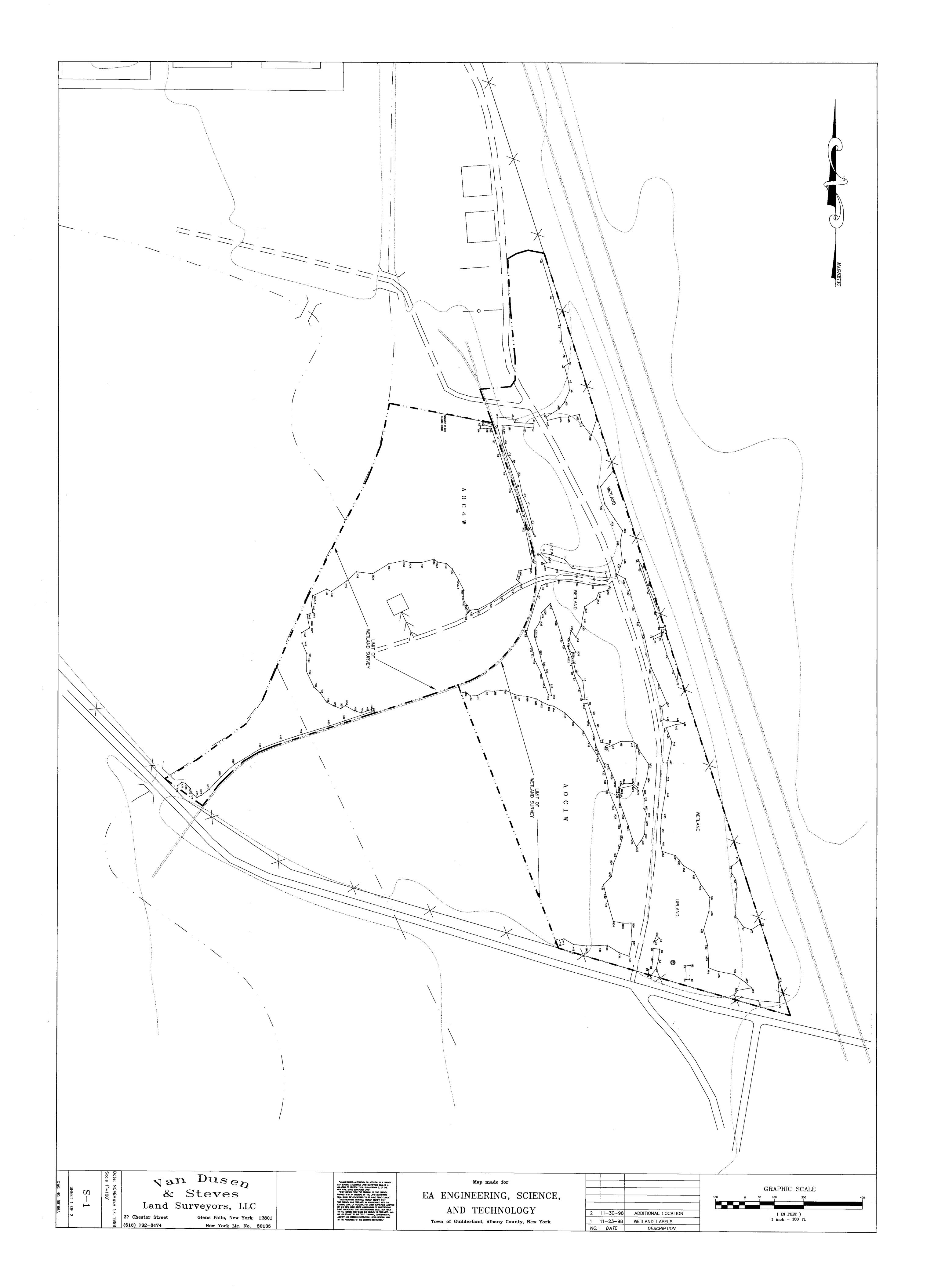
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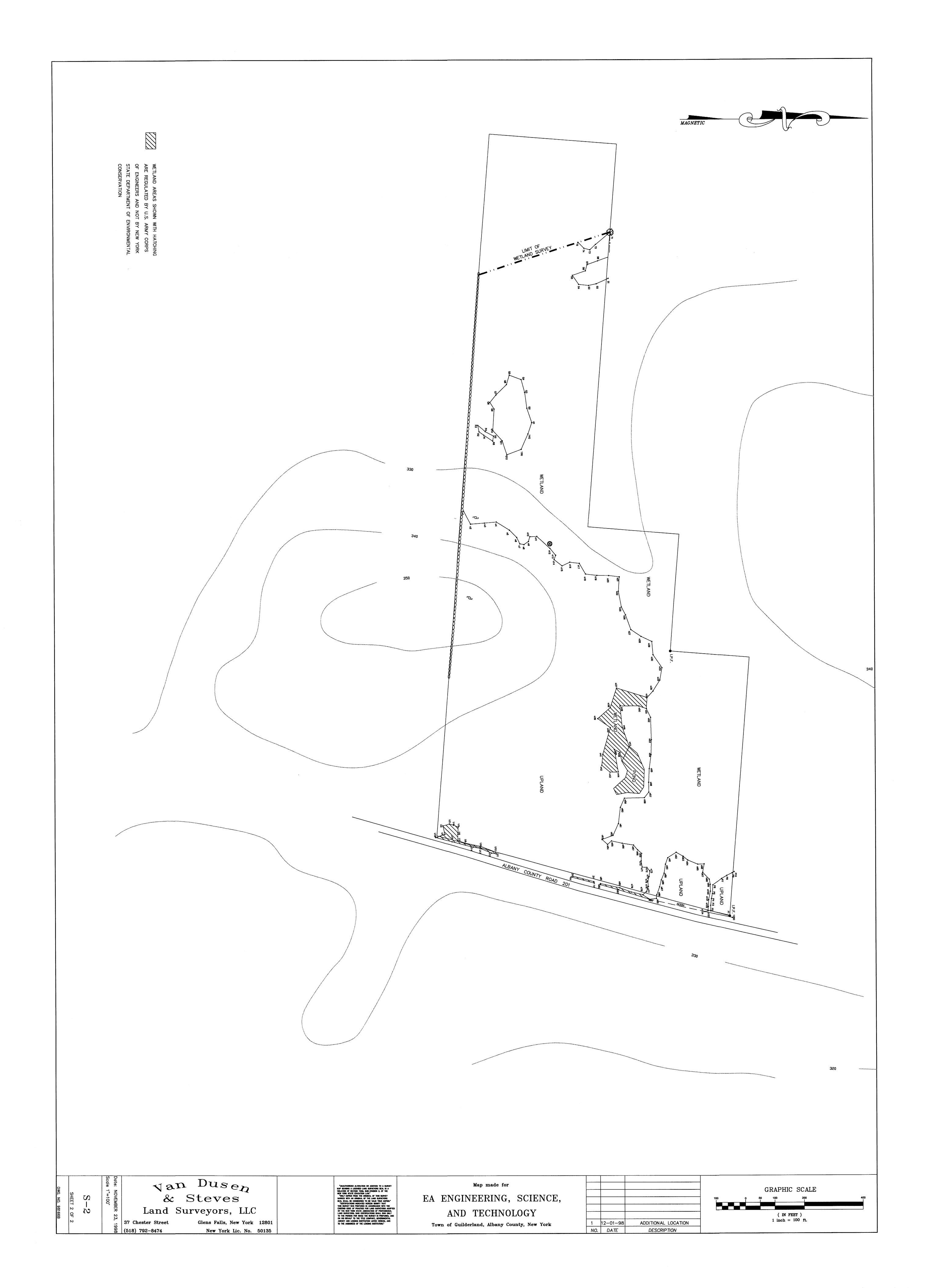
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- U.S. Geological Survey (USGS). 1980. Topographic Map, Voorheesville, New York, 7.5-Minute Quadrangle.

Appendix A

Site Plans





## Appendix B

**Wetland Data Sheets** 

| Project Title: NEIP Wetlands Location: AOC1, Northeastern Industrial Park, Guilderland, NY | Date: 9/23/98<br>County: Albany |
|--------------------------------------------------------------------------------------------|---------------------------------|
| Do Normal Circumstances exist on site? Yes                                                 | Transect: 3                     |
| Is the site significantly disturbed? No                                                    | Flag #: A09                     |
| Is the area a potential problem area? No                                                   | WETLAND OR UPLAND? WET          |
| REMARKS: Wet meadow along the fence at the eastern property line, at the                   | north end of AOC1.              |

| VEGETATION                                        |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
|---------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Dominant Plants by Stratum                        | Percent<br>cover             | Dominant<br>Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NWI<br>Status                         |
| TREES: None                                       |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
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| dominance ratio 50%= 20%= total=                  |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| SAPLINGS (<5" dbh, >20"): None                    |                              | esta de la companya della companya d |                                       |
|                                                   |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
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| SHRUBS (3-20'): None                              |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
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| dominance ratio 50%= 20%= total=                  | 51                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| HERBS AND SEEDLINGS:                              |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| Juncus canadensis, Canada rush                    | 5                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | OBL                                   |
| Juncus tenuis, Path rush                          | 50                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FAC-                                  |
| Carex vulpinoidea, Fox sedge                      | 5                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | OBL                                   |
| Panicum sp., Panic grass                          | 30                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                     |
| Lythrum salicaria, Purple loosestrife             | 5                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FACW+                                 |
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| dominance ratio 50%= 47.5 20%= 19 Total=          | 95                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - 15 to 15 to 1                       |
| Tally of Dominants: OBL= 2 FACW= 1 FAC*= FAC= 1 F | ACU= UPL=                    | SUM= 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |
| [OBL+FACW+FAC+FAC] X 100 = 80 - 100%<br>SUM       | Area Disturb<br>Describe: Fo |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |

Sample Location: AOC1, Flag A9, Wetland

| Depth H     | lorizon    | Muncell Color (wet)          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |
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|             |            | Munsell Color (wet)          | USDA Texture (wet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Remarks                           |
| •           |            | Matrix:<br>Mottles:          | Gravelly fill                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |
| =           |            | Matrix:<br>Mottles:          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |
| "           | ar st      | Matrix:<br>Mottles:          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |
| <b>11</b>   |            | Matrix:<br>Mottles:          | in the second of |                                   |
| Soil Taxono | omy: Udo   | rthents, loamy               | Permeability:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Drainage Class: mod. well-drained |
| Series and  | Phase: L   | Jdorthents, loamy            | Field observations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | confirm map type? Yes             |
| Orgar       | nic soil   |                              | Reducing Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NTCHS list                        |
| Histic      | Epipedo    | <b>n</b>                     | Sulfidic Odor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Local Hydric Soil List            |
| Gleye       | ed or low- | chroma colors                | Aquic Moisture Regime                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |
| Dark        | Vertical S | Streaking of Subsurface I    | Horizons (sandy soils)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Other (explain)                   |
| High        | Organic C  | Content in Surface Horizo    | on (sandy soils)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |
| Remarks: S  | Soils appe | ear to be old fill material, | , matching map type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |

| HYDR                                                                                                                       | OLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recorded Data Indicating Inundation or Saturation Source:                                                                  | for Extended Period During the Growing Season ited:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| PRIMARY INDICATORS:Inundation (Depth)Saturation in Upper 12" (Depth)WatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  X Oxidized Root Channels in Upper 12"  Water-stained Leaves  Local Soil Survey  X FAC Neutral Test Other (Buttressed trees, Stooling)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Remarks: Water saturated to surface in wetland                                                                             | The Park Contract of the Park Contract of the |

|                                                                                                                                   |                                              | CONCLUSIONS                                      |                    | ng bulansa man                                     | ander gar i skalit jir |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------|--------------------|----------------------------------------------------|------------------------|
| Yes_Hydrophytes Prevalent Yes_Wetland Hydrology                                                                                   |                                              |                                                  | dric Soils/etland? | grade at Ar<br>Ar Section (1997)<br>Section (1997) |                        |
| Remarks: Hydrophytes preval landfill material. Hydrology inc<br>Wetland line in the meadow fol<br>the upland species including ch | licators include<br>lows the veget           | e oxidized roots, FAC r<br>ation boundary betwee | neutral test       | and evidence                                       | e of drainage pattem.  |
| Field Personnel: D. Roberts &                                                                                                     | B. Anderson                                  | THE CONTRACT OF STREET                           |                    | en e           |                        |
| Review: Aldrest                                                                                                                   | 1 12 14 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Date:                                            | 2/2/95             | Note that the second of the second                 |                        |

| Project Title: NEIP Wetlands Location: AOC1, Northeastern Industrial Park, Guilderland, NY | Date: 9/23/98<br>County: Albany |  |  |
|--------------------------------------------------------------------------------------------|---------------------------------|--|--|
| Do Normal Circumstances exist on site? Yes                                                 | Transect: 2                     |  |  |
| Is the site significantly disturbed? Yes                                                   | Flag #: A09                     |  |  |
| Is the area a potential problem area? No                                                   | WETLAND OR UPLAND? UPL          |  |  |

| VEGETATION                                       |                                                                                                               |                                                                                                                |                   |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------|
| Dominant Plants by Stratum                       | Percent<br>cover                                                                                              | Dominant<br>Species                                                                                            | NWI<br>Status     |
| TREES: None                                      |                                                                                                               | -                                                                                                              |                   |
|                                                  |                                                                                                               |                                                                                                                | athara ta in<br>A |
|                                                  |                                                                                                               |                                                                                                                |                   |
|                                                  |                                                                                                               |                                                                                                                |                   |
|                                                  |                                                                                                               | era en la calactería de l |                   |
| dominance ratio 50%= 20%= total=                 |                                                                                                               |                                                                                                                |                   |
| SAPLINGS (<5" dbh, >20"): None                   | a Sarah |                                                                                                                |                   |
|                                                  |                                                                                                               |                                                                                                                |                   |
|                                                  |                                                                                                               |                                                                                                                |                   |
|                                                  |                                                                                                               |                                                                                                                |                   |
|                                                  |                                                                                                               |                                                                                                                |                   |
| dominance ratio 50%= 20%= tota =                 |                                                                                                               |                                                                                                                | g in the          |
| SHRUBS (3-20'): None                             |                                                                                                               |                                                                                                                |                   |
|                                                  |                                                                                                               |                                                                                                                |                   |
|                                                  |                                                                                                               |                                                                                                                |                   |
|                                                  |                                                                                                               | edit of                                                                                                        | A                 |
|                                                  |                                                                                                               |                                                                                                                |                   |
| dominance ratio 50%= 20%= total=                 |                                                                                                               |                                                                                                                |                   |
| HERBS AND SEEDLINGS:                             | <u> </u>                                                                                                      |                                                                                                                |                   |
|                                                  |                                                                                                               |                                                                                                                |                   |
| Ambrosia artemisiifolia, ragweed                 | 10                                                                                                            | Yes                                                                                                            | FACU              |
| Daucus carota, Queen Anne's Lace                 | 10                                                                                                            | Yes                                                                                                            | UPL               |
| Unknown grass                                    | 40                                                                                                            | Yes                                                                                                            | •                 |
| Centaurea maculosa, Spotted knapweed             | 20                                                                                                            | Yes                                                                                                            | UPL               |
| Aster pilosus, White heath aster                 | 10                                                                                                            | Yes                                                                                                            | UPL               |
| Fragaria virginiana, Virginia strawberry         | 1                                                                                                             | No                                                                                                             | FACU              |
|                                                  |                                                                                                               |                                                                                                                |                   |
| dominance ratio 50%= 45.5 20%= 18 Total=         | 91                                                                                                            |                                                                                                                |                   |
| Tally of Dominants: OBL= FACW= FAC+= FAC= FAC+   | J= 1 UPL= 3                                                                                                   | SUM= 5                                                                                                         |                   |
| [OBL+FACW+FAC*+FAC] X 100 = 0-1/5 = 0-20%<br>SUM | Area Disturb                                                                                                  |                                                                                                                |                   |

Sample Location: AOC1, Flag A9, Upland

|          |               |                             | SOIL                                     |                                                             |
|----------|---------------|-----------------------------|------------------------------------------|-------------------------------------------------------------|
| Depth    | Horizon       | Munsell Color (wet)         | USDA Texture (wet)                       | Remarks                                                     |
| 0-10"    |               | Matrix:<br>Mottles:         | Gravelly fill                            | rajeti je najeva kompanija.<br>Pareti je najeva po povodaje |
| erii.    |               | Matrix:<br>Mottles:         |                                          |                                                             |
| H        |               | Matrix:<br>Mottles:         | en e |                                                             |
| п        |               | Matrix:<br>Mottles:         |                                          |                                                             |
| Soil Tax | onomy: Udo    | orthents, loamy             | Permeability:                            | Drainage Class: mod. well-drained                           |
| Series a | nd Phase: 1   | Udorthents, loamy           | Field observation                        | s confirm map type? Yes                                     |
| Or       | ganic soil    |                             | Reducing Conditions                      | NTCHS list                                                  |
| His      | stic Epipedo  | n                           | Sulfidic Odor                            | Local Hydric Soil List                                      |
| Gl       | eyed or low-  | -chroma colors              | Aquic Moisture Regime                    |                                                             |
| Da       | rk Vertical S | Streaking of Subsurface I   | Horizons (sandy soils)                   | Other (explain)                                             |
| Hiç      | gh Organic (  | Content in Surface Horizo   | on (sandy soils)                         |                                                             |
| Remark   | s: Soils app  | ear to be old fill material | , matching map type                      |                                                             |

| HVDP                                                                                                                       | OLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recorded Data Indicating Inundation or Saturation                                                                          | for Extended Period During the Growing Season sted:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| PRIMARY INDICATORS:Inundation (Depth)Saturation in Upper 12" (Depth)WatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  Oxidized Root Channels in Upper 12"  Water-stained Leaves  Local Soil Survey  FAC Neutral Test Other (Buttressed trees, Stooling)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Remarks: No indicators observed                                                                                            | <ul> <li>1. Discourse of the second of t</li></ul> |

| CONCL                                         | USIONS                      |
|-----------------------------------------------|-----------------------------|
| No Hydrophytes Prevalent No Wetland Hydrology | No Hydric Soils No Wetland? |
| Remarks:                                      |                             |
| Field Personnel: D. Roberts & B. Anderson     |                             |
| Review: About A. Dhert                        | Date:   2   2   9 🛠         |

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| Finish inch inches                         | Date: 9/23/98<br>County: Albany |
|--------------------------------------------|---------------------------------|
| Do Normal Circumstances exist on site? Yes | Transect: 2                     |
|                                            | Flag #: A34                     |
| Is the area a potential problem area? No   | WETLAND OR UPLAND? WET          |

| VEGETATION                                                                              |                  |                     |               |
|-----------------------------------------------------------------------------------------|------------------|---------------------|---------------|
| Dominant Plants by Stratum                                                              | Percent<br>cover | Dominant<br>Species | NWI<br>Status |
| TREES: None                                                                             |                  |                     |               |
|                                                                                         |                  |                     |               |
|                                                                                         |                  |                     |               |
|                                                                                         |                  |                     |               |
|                                                                                         |                  |                     | <u> </u>      |
| dominance ratio 50%= 20%= total=                                                        |                  |                     |               |
| SAPLINGS (<5" dbh, >20"): None                                                          |                  |                     |               |
|                                                                                         |                  | * .                 |               |
|                                                                                         |                  |                     |               |
|                                                                                         |                  |                     |               |
|                                                                                         |                  |                     |               |
| dominance ratio 50%= 20%= total=                                                        |                  |                     |               |
| SHRUBS (3-20'): None                                                                    |                  |                     |               |
|                                                                                         |                  |                     |               |
|                                                                                         | <del> </del>     |                     |               |
|                                                                                         |                  |                     |               |
| dominance ratio 50%= 26 20%= 10 total=                                                  | 51               |                     |               |
| dominance ratio de la 25 25 25 25 25 25 25 25 25 25 25 25 25                            |                  |                     |               |
| HERBS AND SEEDLINGS:                                                                    |                  |                     | ·             |
|                                                                                         | 20               | Yes                 | OBL           |
| Juncus canadensis, Canada rush                                                          | 5                | Yes                 | FACW+         |
| Lythrum salicaria, Purple loosestrife                                                   | 60               | Yes                 | OBL           |
| Typha angustifolia, Narrow-leaved cattail                                               |                  |                     |               |
|                                                                                         |                  |                     |               |
|                                                                                         |                  | e i Tura e i j      |               |
|                                                                                         |                  |                     |               |
| dominance ratio 50%= 42.5 20%= 17 Total:                                                | = 85             |                     | 7.4           |
|                                                                                         |                  | SUM= 3              |               |
| Tally of Dominants: OBL= 2 FACW= 1 FAC*= FAC= FAC= [OBL+FACW+FAC*+FAC] X 100 = 100% SUM | Area Disturb     | ed? Yes             |               |

Sample Location: AOC1, Flag A34, Wetland

| 100                                                                          |                                                                  | 相称 (A. Papa Jana) (A | SOIL                                                                                                                                                                                                                             |                                   |  |
|------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--|
| Depth                                                                        | Horizon                                                          | Munsell Color (wet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | USDA Texture (wet)                                                                                                                                                                                                               | Remarks                           |  |
| 0-10"                                                                        |                                                                  | Matrix:<br>Mottles:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Gravelly fill                                                                                                                                                                                                                    |                                   |  |
| ŧŧ                                                                           |                                                                  | Matrix:<br>Mottles:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                  |                                   |  |
|                                                                              |                                                                  | Matrix:<br>Mottles:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | en de la companya de<br>La companya de la co |                                   |  |
| <b>.</b>                                                                     | . 6                                                              | Matrix:<br>Mottles:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                  |                                   |  |
| Soil Taxonomy: Udorthents, loarny                                            |                                                                  | rthents, loamy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Permeability:                                                                                                                                                                                                                    | Drainage Class: mod. well-drained |  |
| Series and Phase: Udorthents, loamy Field observations confirm map type? Yes |                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                  |                                   |  |
| Οιζ                                                                          | ganic soil                                                       | ·<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Reducing Conditions                                                                                                                                                                                                              | NTCHS list                        |  |
| His                                                                          | tic Epipedo                                                      | n. :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sulfidic Odor                                                                                                                                                                                                                    | Local Hydric Soil List            |  |
| Gleyed or low-chroma colors                                                  |                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Aquic Moisture Regime                                                                                                                                                                                                            |                                   |  |
| Dark Vertical Streaking of Subsurface Horiz                                  |                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Horizons (sandy soils)                                                                                                                                                                                                           | Other (explain)                   |  |
| High Organic Content in Surface Horizon (sandy soils)                        |                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                  |                                   |  |
| Remarks                                                                      | Remarks: Soils appear to be old fill material, matching map type |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                  |                                   |  |

| HYDR                                                                                                                          | OLOGY                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                               | n for Extended Period During the Growing Season ated:                                                                                                                             |
| PRIMARY INDICATORS:Inundation (Depth)XSaturation in Upper 12" (Depth0")WatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  X_Oxidized Root Channels in Upper 12"  Water-stained Leaves  Local Soil Survey  X_FAC Neutral Test  Other (Buttressed trees, Stooling) |
| Remarks: Water saturated to surface in wetland                                                                                |                                                                                                                                                                                   |

| CONCLUSIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                        |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--|--|--|
| Yes Hydrophytes Prevalent Yes Wetland Hydrology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes Hydric Soils Yes Wetland?                          |  |  |  |
| Remarks: Obligate and FACW species at base of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | steep bank. Hydrophytes prevalent and boundary abrupt. |  |  |  |
| A service of the serv |                                                        |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |  |  |  |
| Field Personnel: D. Roberts & B. Anderson                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                        |  |  |  |
| Review: DA Polyant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Date: 12 2 98                                          |  |  |  |

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| t toject their transfer                                           | te: 9/23/98          |
|-------------------------------------------------------------------|----------------------|
| Line Accel North control Industrial Park Childerland NV Con       |                      |
| Location: AOC1, Northeastern Industrial Park, Guilderland, NY Cou | unty: Albany         |
| Do Normal Circumstances exist on site? Yes Training               | nsect: 2             |
|                                                                   | g #: A34             |
|                                                                   | TLAND OR UPLAND? UPL |

| VEGETATION                                           |                                       |                     |                   |
|------------------------------------------------------|---------------------------------------|---------------------|-------------------|
| Dominant Plants by Stratum                           | Percent<br>cover                      | Dominant<br>Species | NWI<br>Status     |
| TREES: None                                          |                                       |                     | 5.42              |
|                                                      |                                       |                     |                   |
|                                                      |                                       |                     |                   |
|                                                      |                                       |                     | :<br>-            |
|                                                      |                                       |                     |                   |
| dominance ratio 50%= 20%= total=                     |                                       |                     |                   |
| SAPLINGS (<5" dbh, >20"): None                       |                                       |                     | letter er er er e |
|                                                      |                                       |                     | <u> </u>          |
|                                                      | 1 199 170 1                           |                     | ·                 |
|                                                      |                                       |                     |                   |
|                                                      | -                                     |                     |                   |
| dominance ratio 50%= 20%= total=                     |                                       |                     |                   |
| SHRUBS (3-20'): None                                 |                                       |                     |                   |
| Comus foemina, Stiff dogwood                         | 50                                    | Yes                 | FAC               |
| Rhamnus frangula, Glossy buckthorn                   | 1                                     | No                  | FAC               |
|                                                      |                                       |                     |                   |
|                                                      |                                       |                     |                   |
| dominance ratio 50%= 26 20%= 10 total=               | 51                                    |                     |                   |
| HERBS AND SEEDLINGS:                                 | · · · · · · · · · · · · · · · · · · · |                     |                   |
| Solidago sp., Goldenrod                              | 5                                     | No                  | • • ·             |
| Aster pilosus, White heath aster                     | 30                                    | Yes                 | UPL               |
| Fragaria virginiana, Virginia strawberry             | 20                                    | Yes                 | FACU              |
| Comus foemina, Stiff dogwood                         | 20                                    | Yes                 | FAC               |
| Rhamnus frangula, Glossy buckthorn                   | 1                                     | No                  | FAC               |
|                                                      | Market Later Co.                      | en eve              |                   |
|                                                      |                                       |                     |                   |
| dominance ratio 50%= 38 20%= 15.2 Total=             | 76                                    |                     |                   |
| Tally of Dominants: OBL= FACW= FAC*= FAC= 2 FAC= FAC | U= 1 UPL= 1                           | SUM= 4              |                   |
| OBL+FACW+FAC*+FACI X 100 = 2/4 = 50% SUM             | Area Disturb<br>Describe: Fo          |                     |                   |

Sample Location: AOC1, Flag 34, Upland

|                                                                         |                                       |                              | SOIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | and the state of t |
|-------------------------------------------------------------------------|---------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Depth                                                                   | Horizon                               | Munsell Color (wet)          | USDA Texture (wet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 0-10"                                                                   | · · · · · · · · · · · · · · · · · · · | Matrix:<br>Mottles:          | Gravelly fill                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| . # **                                                                  |                                       | Matrix:<br>Mottles:          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>B</b>                                                                |                                       | Matrix:<br>Mottles:          | and the second s | turi e e e e e e e e e e e e e e e e e e e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| н                                                                       |                                       | Matrix:<br>Mottles:          | And the second of the second o |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Soil Taxonomy: Udorthents, loamy                                        |                                       | orthents, loarny             | Permeability:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Drainage Class: mod. well-drained                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Series and Phase: Udorthents, loamy Field observations confirm map type |                                       |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | confirm map type? Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Organic soil                                                            |                                       |                              | Reducing Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NTCHS list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| His                                                                     | stic Epipedo                          | n i                          | Sulfidic Odor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Local Hydric Soil List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gleyed or low-chroma colors                                             |                                       |                              | Aquic Moisture Regime                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | We have a second of the second |
| Da                                                                      | rk Vertical S                         | Streaking of Subsurface I    | lorizons (sandy soils)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Other (explain)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Hiç                                                                     | gh Organic (                          | Content in Surface Horizo    | on (sandy soils)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Remark                                                                  | s: Soils app                          | ear to be old fill material, | matching map type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| HYDROLOGY                                                                                                                   |                                                                                                                                                                              |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Recorded Data Indicating Inundation or Saturation for Extended Period During the Growing Season Source:  Dated:             |                                                                                                                                                                              |  |  |  |  |
| PRIMARY INDICATORS:Inundation (Depth)Saturation in Upper 12" (Depth) WatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  Oxidized Root Channels in Upper 12"  Water-stained Leaves  Local Soil Survey  FAC Neutral Test Other (Buttressed trees, Stooling) |  |  |  |  |
| Remarks: No indicators observed                                                                                             |                                                                                                                                                                              |  |  |  |  |

| CC                                              | ONCLUSIONS                  |
|-------------------------------------------------|-----------------------------|
| No Hydrophytes Prevalent No Wetland Hydrology   | No_Hydric Soils No_Wetland? |
| Remarks: Hydrophytes absent at top of steep ban |                             |
|                                                 |                             |
| Field Personnel: D. Roberts & B. Anderson       |                             |
| Review: DA Chects                               | Date: 12/2/98               |

July 14, 1994 BOILER\DELIN1 FRM

| Project Title: NEIP Wetlands                                                        | Date: 9/23/98<br>County: Albany |
|-------------------------------------------------------------------------------------|---------------------------------|
| Location: AOC1, Northeastern Industrial Park, Guilderland, NY                       | Transect: 1                     |
| Do Normal Circumstances exist on site? Yes Is the site significantly disturbed? Yes | Flag #: A63                     |
| Is the area a potential problem area? No                                            | WETLAND OR UPLAND? WET          |
| REMARKS: Area of wet meadow on fill adjacent to ponds at the southern er            | nd of AOC1.                     |

| VEGETATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |                                                                                                                 |                                     |
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| Dominant Plants by Stratum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Percent<br>cover             | Dominant<br>Species                                                                                             | NWI<br>Status                       |
| TREES: None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              | 9                                                                                                               |                                     |
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| dominance ratio 50%= 20%= total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100                          |                                                                                                                 |                                     |
| SAPLINGS (<5" dbh, >20'): None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |                                                                                                                 | Para Bera                           |
| And the state of t |                              |                                                                                                                 |                                     |
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| SHRUBS (3-20'): None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |                                                                                                                 |                                     |
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| HERBS AND SEEDLINGS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |                                                                                                                 |                                     |
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| Phragmites australis, Common reed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 50                           | Yes                                                                                                             | FACW                                |
| Lythrum salicaria, Purple loosestrife                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1                            | Yes                                                                                                             | FACW                                |
| Juncus tenuis, Path rush                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                            | Yes                                                                                                             | FAC-                                |
| Panicum virgatum, Switchgrass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10                           | Yes                                                                                                             | FAC                                 |
| grand the state of | e novembro Pari              |                                                                                                                 |                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                                                                                                                 |                                     |
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| dominance ratio 50%= 33 20%= 13.2 Total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ., <b>66</b> <u></u>         | w. Santania                                                                                                     |                                     |
| Tally of Dominants: OBL= FACW= 2 FAC*= FAC=1 FAC= 1 F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ACU= UPL=                    | SUM= 4                                                                                                          |                                     |
| [OBL+FACW+FAC+FAC] X 100 = 3/4 = 75%<br>SUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Area Disturb<br>Describe: Ol | ed? Yes                                                                                                         | A British Bartis<br>Section Section |

Sample Location: AOC1, Flag A63, Wetland

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | SOIL                   |                                                                     |  |
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| Depth                                   | Horizon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Munsell Color (wet) | USDA Texture (wet)     | Remarks                                                             |  |
| 10                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Matrix:<br>Mottles: |                        | r Lefan Frysland (1990) og det en er fill fill<br>Lefan frederingen |  |
| W                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Matrix:<br>Mottles: |                        |                                                                     |  |
| U                                       | e de la companya de l | Matrix;<br>Mottles; |                        |                                                                     |  |
| H<br>A Straight<br>Straight             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Matrix:<br>Mottles: |                        | n seema un anno anno anno anno anno anno anno                       |  |
| Soil Taxonomy: Udorthents, loamy        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | rthents, loamy      | Permeability:          | Drainage Class: mod. well-drained                                   |  |
| Series ar                               | id Phase:  l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Jdorthents, loamy   | Field observations     | confirm map type? Yes                                               |  |
| Organic soil                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | Reducing Conditions    | NTCHS list                                                          |  |
| His                                     | tic Epipedo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | n                   | Sulfidic Odor          | Local Hydric Soil List                                              |  |
|                                         | Gleyed or low-chroma colors Aquic Moisture Regime                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |                        |                                                                     |  |
| Dark Vertical Streaking of Subsurface H |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     | forizons (sandy soils) | Other (explain)                                                     |  |
| High Organic Content in Surface Horizon |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                     |                        |                                                                     |  |
| Remarks                                 | Remarks: Soils appear to be old fill material, matching map type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |                        |                                                                     |  |

| HYDF                                                                                                                       | ROLOGY                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recorded Data Indicating Inundation or Saturation Source:                                                                  | n for Extended Period During the Growing Season ated:                                                                                                                         |
| PRIMARY INDICATORS:Inundation (Depth)Saturation in Upper 12" (Depth)WatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  X Oxidized Root Channels in Upper 12" Water-stained Leaves Local Soil Survey X FAC Neutral Test Other (Buttressed trees, Stooling) |
| Remarks: Water saturated to surface in wetland                                                                             |                                                                                                                                                                               |

| CONCLUSIONS         |                                        |                                                                                                                              |            |
|---------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------|
| Yes Hye             | drophytes Prevalent<br>tland Hydrology | Yes Hydric Soils Yes Wetland?                                                                                                |            |
| Remarks: area and a | ojacem obiano dominated by             | Fill material with an absence of hydric indicators. Much of the Switchgrass (FAC). Due to disturbed soil conditions, wetland | ne wetland |
| based on p          | resence/absence of other ind           | licator species.                                                                                                             |            |
| based on p          | resence/absence of other ind           |                                                                                                                              |            |
| based on p          | resence/absence of other ind           |                                                                                                                              |            |

| Project Title: NEIP Wetlands Location: AOC1, Northeastern Industrial Park, Guilderland, NY | Date: 9/23/98<br>County: Albany     |
|--------------------------------------------------------------------------------------------|-------------------------------------|
| Do Normal Circumstances exist on site? Yes                                                 | Transect: 1                         |
| Is the site significantly disturbed? Yes                                                   | Flag #: A63                         |
| Is the area a potential problem area? No                                                   | WETLAND OR UPLAND? UPL              |
| REMARKS: Disturbed upland adjacent to an area of wet meadow on fill adjacent.              | ent to ponds at the southern end of |

| VEGETATION                                                       |                              | The state of the s |               |
|------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Dominant Plants by Stratum                                       | Percent<br>cover             | Dominant<br>Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NWI<br>Status |
| TREES: None                                                      |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
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|                                                                  |                              | and the second of the second o |               |
|                                                                  |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
| dominance ratio 50%= 20%= total=                                 |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
| SAPLINGS (<5" dbh, >20"): None                                   |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
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|                                                                  |                              | 4.47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |
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| SHRUBS (3-20'): None                                             |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.3           |
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| HERBS AND SEEDLINGS:                                             | - <u>19</u> 5                | Agent make                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | es desa       |
|                                                                  | _                            | eru i <u>Mina a la la</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 150         |
| Solidago nemoralis, Gray goldenrod                               | 5 .                          | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UPL           |
| Aster pilosus, White heath aster                                 | 10                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UPL           |
| Daucus carota, Queen Anne's Lace                                 | 20                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UPL           |
| Lotus comiculatus, Birds-foot trefoil                            | 1                            | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FACU          |
| Other                                                            | 10                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7261          |
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| dominance ratio 50%= 23 20%= 9.2 Total=                          | 46                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u>      |
| Tally of Dominants: OBL= FACW= FAC+ FAC+ FAC+ FACU               | <b>i</b>                     | SUM= 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |
| [OBL+FACW+FAC <sup>+</sup> +FAC] X 100 = 0 or 1/5 = 0-20%<br>SUM | Area Disturb<br>Describe: Fo |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |

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| Depth                                             | Horizon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Munsell Color (wet)                                                                                                       | USDA Texture (wet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Remarks                                                                                                        |
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| <b>R</b>                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Matrix:<br>Mottles:                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |
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| <b>U</b> ,,.                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Matrix:<br>Mottles:                                                                                                       | A TO THE STATE OF |                                                                                                                |
| Soil Tax                                          | conomy: Udo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | orthents, loamy                                                                                                           | Permeability:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Drainage Class: mod. well-drained                                                                              |
| Series a                                          | nd Phase: \                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Udorthents, loamy                                                                                                         | Field observation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ns confirm map type? Yes                                                                                       |
| <u> </u>                                          | rganic soil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                           | Reducing Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NTCHS list                                                                                                     |
| <u>Hi</u>                                         | stic Epipedo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | n                                                                                                                         | Sulfidic Odor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Local Hydric Soil List                                                                                         |
| G                                                 | eyed or low-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -chroma colors                                                                                                            | Aquic Moisture Regime                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                |
| Dark Vertical Streaking of Subsurface I           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                           | Horizons (sandy soils)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Other (explain)                                                                                                |
|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |
| Hi                                                | gh Organic (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Content in Surface Horizo                                                                                                 | on (sandy soils)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                |
| Hi                                                | gh Organic (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                           | on (sandy soils)<br>, matching map type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                |
| Hi<br>Remark                                      | gh Organic (<br>s: Soils app                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Content in Surface Horizo                                                                                                 | on (sandy soils) , matching map type  HYDROLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                |
| Hi<br>Remark                                      | gh Organic (<br>s: Soils app<br>ecorded Dat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Content in Surface Horizo                                                                                                 | on (sandy soils)<br>, matching map type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                |
| Remark  Remark  Source: PRIMAF  In Se W  Dri Se   | gh Organic (<br>s: Soils app<br>ecorded Data<br>RY INDICAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | content in Surface Horizonear to be old fill material,  a Indicating Inundation of ORS: epth) Upper 12" (Depth) osits     | n (sandy soils)  matching map type  HYDROLOGY  r Saturation for Extended Period Dated:  SECONDARY IND  Oxidized Roo Water-staine Local Soil Si FAC Neutral                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | During the Growing Season  ICATORS (2 or more required) of Channels in Upper 12" dd Leaves urvey               |
| Remark  Remark  Resource: PRIMAF  In Se W  Dri Se | ecorded Data<br>RY INDICATe and atternances in United States in the second of the second | content in Surface Horizonear to be old fill material,  a Indicating Inundation of ORS: epth) Upper 12" (Depth) osits     | n (sandy soils)  matching map type  HYDROLOGY  r Saturation for Extended Period Dated:  SECONDARY IND  Oxidized Roo Water-staine Local Soil Si FAC Neutral                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | During the Growing Season  ICATORS (2 or more required)  ot Channels in Upper 12"  d Leaves  urvey  Test       |
| Remark  Remark  Resource: PRIMAF  In Se W  Dri Se | ecorded Data<br>RY INDICATe and atternances in United States in the second of the second | content in Surface Horizonear to be old fill material,  a Indicating Inundation of ORS: epth) Upper 12" (Depth) osits ems | n (sandy soils)  matching map type  HYDROLOGY  r Saturation for Extended Period Dated:  SECONDARY IND  Oxidized Roo Water-staine Local Soil Si FAC Neutral                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | During the Growing Season  ICATORS (2 or more required)  ot Channels in Upper 12"  dd Leaves  urvey  Test      |

Date:

Field Personnel: D. Roberts & B. Anderson

Review: DA Poliverto

July 14, 1994 BOILER\DELIN1.FRM

| Project Title: NEIP Wetlands                                  | Date: 9/23/98          |
|---------------------------------------------------------------|------------------------|
| Location: AOC1, Northeastern Industrial Park, Guilderland, NY | County: Albany         |
| Do Normal Circumstances exist on site? Yes                    | Transect: 1            |
| Is the site significantly disturbed? Yes                      | Flag #: D5             |
| Is the area a potential problem area? No                      | WETLAND OR UPLAND? WET |

| VEGETATION                                      |                             |                     |               |
|-------------------------------------------------|-----------------------------|---------------------|---------------|
| Dominant Plants by Stratum                      | Percent<br>cover            | Dominant<br>Species | NWI<br>Status |
| TREES: None                                     |                             |                     |               |
|                                                 | 1.2                         |                     |               |
|                                                 |                             |                     |               |
|                                                 |                             |                     |               |
|                                                 |                             |                     |               |
| dominance ratio 50%= 20%= total=                |                             | 4,1,11, ±1,1        |               |
| SAPLINGS (<5" dbh, >20"): None                  |                             |                     |               |
|                                                 |                             |                     |               |
|                                                 |                             |                     |               |
|                                                 |                             |                     |               |
|                                                 |                             |                     | 2.1           |
| dominance ratio 50%= 20%= total=                |                             |                     | N             |
| SHRUBS (3-20'): None                            |                             |                     |               |
|                                                 |                             |                     | ,             |
|                                                 |                             |                     |               |
|                                                 |                             |                     |               |
|                                                 |                             |                     |               |
| dominance ratio 50%= 20%= total=                |                             |                     |               |
| HERBS AND SEEDLINGS:                            |                             |                     |               |
|                                                 |                             |                     |               |
|                                                 |                             |                     | EAC)AI        |
| Lythrum salicaria, Purple loosestrife           | 50                          | Yes                 | FACW          |
|                                                 | <u> </u>                    |                     |               |
|                                                 |                             | 100                 |               |
|                                                 | <del> </del>                |                     | 1             |
|                                                 |                             |                     |               |
|                                                 |                             | <u> </u>            |               |
| dominance ratio 50%= 20%= Total=                | 50                          |                     |               |
| Tally of Dominants: OBL= FACW= 1 FAC*= FAC= FAC |                             | SUM= 1              | ····          |
| [OBL+FACW+FAC+FAC] X 100 = 100%<br>SUM          | Area Disturi<br>Describe: D |                     |               |

Sample Location: AOC1, Flag D5, Wetland Depth Horizon **Munsell Color (wet) USDA Texture (wet)** Remarks 0-10" Matrix: 10YR3/1 Sandy loam fill no distinct profile evident - fill Mottles: Matrix: Mottles: Matrix: Mottles: Matrix: Mottles: Soil Taxonomy: Udorthents, loamy Permeability: Drainage Class: mod. well-drained Series and Phase: Udorthents, loamy Field observations confirm map type? Yes Organic soil **Reducing Conditions NTCHS list** Histic Epipedon Sulfidic Odor Local Hydric Soil List Gleyed or low-chroma colors **Aquic Moisture Regime** Dark Vertical Streaking of Subsurface Horizons (sandy soils) Other (explain) High Organic Content in Surface Horizon (sandy soils) Remarks: Soils appear to be old fill material, matching map type. Faint

| HYDR                                                                                                                        | OLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Recorded Data Indicating Inundation or Saturation for Extended Period During the Growing Season Source:  Dated:             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |
| PRIMARY INDICATORS:Inundation (Depth)Saturation in Upper 12" (Depth)WatermarksDriftlinesSediment Deposits Drainage Patterns | SECONDARY INDICATORS (2 or more required)  X Oxidized Root Channels in Upper 12" Water-stained Leaves Local Soil Survey X FAC Neutral Test Other (Buttressed trees, Stooling)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |
| Remarks: Distinct ditch                                                                                                     | A CAMBAN AND A CAMBANA AND A C |  |  |

oxidized roots observed.

| <u> </u>                                                      | ONCLUSIONS                     |
|---------------------------------------------------------------|--------------------------------|
| <u>Yes</u> Hydrophytes Prevalent <u>Yes</u> Wetland Hydrology | No_Hydric Soils Yes_Wetland?   |
| Remarks: FACW species in ditch in fill material.              |                                |
|                                                               |                                |
| Field Personnel: D. Roberts & B. Anderson                     |                                |
| Review: JA Plant                                              | Date: 1) 2- 98                 |
|                                                               | July 14, 1994 BOILER\DELIN1.FR |

| and the second |                        |
|------------------------------------------------------------------------------------------------------------------|------------------------|
| Location: AOC4, Northeastern Industrial Park, Guilderland, NY                                                    | County: Albany         |
| Do Normal Circumstances exist on site? Yes                                                                       | Transect: 1            |
| Is the site significantly disturbed? Yes                                                                         | Flag #: H23            |
| Is the area a potential problem area? No                                                                         | WETLAND OR UPLAND? WET |

| VEGETATION                                             |                              |                               |                                       |
|--------------------------------------------------------|------------------------------|-------------------------------|---------------------------------------|
| Dominant Plants by Stratum                             | Percent<br>cover             | Dominant<br>Species           | NWI<br>Status                         |
| TREES:                                                 |                              |                               |                                       |
| Acer rubrum, Red maple                                 | 5                            | Yes                           | FAC                                   |
|                                                        |                              |                               |                                       |
|                                                        |                              |                               |                                       |
|                                                        |                              |                               |                                       |
| dominance ratio 50%= 20%= total=                       | 5                            |                               |                                       |
| SAPLINGS (<5" dbh, >20'):                              | <i>i</i>                     |                               | 47.4                                  |
| Fraxinus pennsylvanica, Green ash                      | . 50                         | Yes                           | FACW                                  |
| Acer rubrum, Red maple                                 | 10                           | No                            | FAC                                   |
|                                                        |                              |                               |                                       |
|                                                        |                              |                               |                                       |
| dominance ratio 50%= 30 20%= 12 total=                 | 60                           |                               |                                       |
| SHRUBS (3-20'):                                        | ·                            |                               | · ·                                   |
| Comus stolonifera, Red osier dogwood                   | 5                            | No                            | FACW                                  |
| Cornus foemina, Stiff dogwood                          | 5                            | No                            | FAC                                   |
| Fraxinus pennsylvanica, Green ash                      | 20                           | Yes                           | FACW                                  |
|                                                        |                              |                               | i i i i i i i i i i i i i i i i i i i |
| dominance ratio 50%= 15 20%= 6 total=                  | 30                           |                               |                                       |
| HERBS AND SEEDLINGS:                                   |                              | , fra je e ryst               | eke su                                |
| Carex scoparia, Pointed broom sedge                    | 20                           | Yes                           | FACW                                  |
| Fraxinus pennsylvanica, Green ash                      | 1                            | No                            | FACW                                  |
| Comus stolonifera, Red osier dogwood                   | 1                            | No                            | FACW                                  |
| Lysimachia nummularia, Creeping Jennie                 | 1                            | No                            | OBL                                   |
| Acer rubrum, Red maple                                 | 5                            | No                            | FAC                                   |
| Typha latifolia                                        | 5                            | No                            | OBL                                   |
|                                                        |                              |                               |                                       |
|                                                        |                              | , see .                       |                                       |
| dominance ratio 50%= 16.5 20%= 6.6 Total=              | 33                           |                               |                                       |
| Tally of Dominants: OBL= FACW= 3 FAC*= FAC= 1 FAC= FAC | ACU= UPL=                    | SUM= 4                        |                                       |
| [OBL+FACW+FAC*+FACL X 100 = 100%<br>SUM                | Area Disturb<br>Describe: Ad | ed? Yes<br>ljacent to base of | landfill                              |

Sample Location: AOC4, Flag H23, Wetland

| 1 12     | 4.6                           |                                       | SOIL                          |                                |
|----------|-------------------------------|---------------------------------------|-------------------------------|--------------------------------|
| Depth    | Horizon                       | Munsell Color (wet)                   | USDA Texture (wet)            | Remarks                        |
| 0-6"     | Ар                            | Matrix: 10/YR3/1<br>Mottles:7.5YR4 /6 | Sandy loam                    |                                |
| 6-10"    | Bg1                           | Matrix:10YR4/1<br>Mottles:10YR5/6     | Clay loam                     |                                |
| n        | Promise of                    | Matrix:<br>Mottles:                   |                               |                                |
| *        | er er er er er er<br>Er er er | Matrix:<br>Mottles:                   |                               |                                |
| Soil Tax | onomy: Mol                    | lic Fluvaquents                       | Permeability: Moderately slow | Drainage Class: poorty drained |
| Series a | nd Phase: V                   | Vayland                               | Field observations confirm r  | nap type? Yes                  |
| On       | ganic soil                    |                                       | Reducing Conditions           | NTCHS list                     |
| His      | tic Epipedo                   | n :                                   | Sulfidic Odor                 | Local Hydric Soil List         |
| X Gle    | yed or low-                   | chroma colors                         | Aquic Moisture Regime         |                                |
| Da       | rk Vertical S                 | Streaking of Subsurface I             | lorizons (sandy soils)        | Other (explain)                |
| Hiç      | gh Organic (                  | Content in Surface Horizo             | on (sandy soils)              | e de kalander jugen gebe       |
| Remark   | s: Low chro                   | ma colored matrix with m              | nottles at 6 inches           |                                |

| HYDROLOGY                                                                                                                    |                                                                                                                                                                                    |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Recorded Data Indicating Inundation or Saturation for Extended Period During the Growing Season Source:  Dated:              |                                                                                                                                                                                    |  |  |  |
| PRIMARY INDICATORS:Inundation (Depth)Saturation in Upper 12" (Depth)X_WatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  X Oxidized Root Channels in Upper 12"  Water-stained Leaves  X Local Soil Survey  X FAC Neutral Test Other (Buttressed trees, Stooling) |  |  |  |
| Remarks:                                                                                                                     |                                                                                                                                                                                    |  |  |  |

| CONCLUSIONS                                                      |                               |  |  |  |
|------------------------------------------------------------------|-------------------------------|--|--|--|
| <u>Yes</u> Hydrophytes Prevalent<br><u>Yes</u> Wetland Hydrology | Yes Hydric Soils Yes Wetland? |  |  |  |
| Remarks: Upper edge of Floodplain forest surrounding             | the C&D landfill.             |  |  |  |
| Field Personnel: D. Roberts & B. Anderson                        |                               |  |  |  |
| Review: DA Properto                                              | Date: 12 2 98                 |  |  |  |

| Location: AOC4, Northeastern Industrial Park, Guilderland, NY C | ounty: Albany          |
|-----------------------------------------------------------------|------------------------|
| Do Normal Circumstances exist on site? Yes                      | ransect: 1             |
| Is the site significantly disturbed? Yes                        | lag #: H23             |
| Is the area a potential problem area? No                        | VETLAND OR UPLAND? UPL |

| VEGETATION                                                                                                     |                               |                                                                                                               |               |
|----------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------|---------------|
| Dominant Plants by Stratum                                                                                     | Percent<br>cover              | Dominant<br>Species                                                                                           | NWI<br>Status |
| TREES:                                                                                                         |                               | ş.,                                                                                                           | V P           |
| Ulmus rubra, Slippery elm                                                                                      | 5                             | Yes                                                                                                           | . FAC         |
|                                                                                                                | :                             |                                                                                                               |               |
|                                                                                                                | g said l                      | e de la companya de |               |
|                                                                                                                | \$17.                         |                                                                                                               |               |
| dominance ratio 50%= 20%= total=                                                                               | 5                             |                                                                                                               |               |
| SAPLINGS (<5" dbh, >20'):                                                                                      | and who the st                |                                                                                                               |               |
| Fraxinus pennsylvanica, Green ash                                                                              | 5                             | Yes                                                                                                           | FACW          |
|                                                                                                                | e e age                       |                                                                                                               |               |
|                                                                                                                |                               |                                                                                                               |               |
|                                                                                                                |                               |                                                                                                               |               |
| dominance ratio 50%= 20%= total=                                                                               | 5                             |                                                                                                               |               |
| SHRUBS (3-20'):                                                                                                |                               |                                                                                                               | :             |
| Cornus foemina, Stiff dogwood                                                                                  | 20                            | Yes                                                                                                           | FAC           |
|                                                                                                                |                               |                                                                                                               |               |
|                                                                                                                |                               |                                                                                                               |               |
|                                                                                                                |                               |                                                                                                               |               |
| dominance ratio 50%= 20%= total=                                                                               | 20                            |                                                                                                               |               |
| HERBS AND SEEDLINGS:                                                                                           |                               |                                                                                                               |               |
| and the second transfer of the second se |                               | 2000                                                                                                          | 7             |
| Solidago canadensis, Canada goldenrod                                                                          | 20                            | Yes                                                                                                           | FACU          |
| Cornus foemina, Stiff dogwood                                                                                  | 5                             | No                                                                                                            | FAC           |
| Fragaria virginiana, Virginia strawberry                                                                       | 10                            | Yes                                                                                                           | FACU          |
| Lysimachia nummularia, Creeping Jennie                                                                         | 1                             | No                                                                                                            | OBL           |
| Equisetum arvense, Field horsetail                                                                             | 5                             | No                                                                                                            | FAC           |
|                                                                                                                |                               | en e                                                                      |               |
|                                                                                                                |                               |                                                                                                               |               |
| dominance ratio 50%= 20.5 20%= 8.2 Total=                                                                      | 41                            |                                                                                                               |               |
| Tally of Dominants: OBL= FACW= 1 FAC*= FAC= FAC                                                                | CU= 2 UPL=                    | SUM= 5                                                                                                        |               |
| [OBL+FACW+FAC*+FAC] X 100 = 3/5 = 60%<br>SUM                                                                   | Area Disturb<br>Describe: Fil |                                                                                                               |               |

Sample Location: \_\_AOC4, Flag H23, Upland Depth Horizon Munsell Color (wet) **USDA Texture (wet)** Remarks 0-10" Matrix: Gravelly fill Coarse fill, concrete and asphalt Mottles: rubble Matrix: Mottles: Matrix: Mottles: Matrix: Mottles: Soil Taxonomy: Udorthents, loamy Permeability: Drainage Class: mod. well-drained Series and Phase: Udorthents, loamy Field observations confirm map type? Yes Organic soil **Reducing Conditions** NTCHS list Histic Epipedon Sulfidic Odor Local Hydric Soil List Gleyed or low-chroma colors Aquic Moisture Regime Dark Vertical Streaking of Subsurface Horizons (sandy soils) Other (explain) High Organic Content in Surface Horizon (sandy soils) Remarks: Soils appear to be fill material, matching map type **HYDROLOGY** Recorded Data Indicating Inundation or Saturation for Extended Period During the Growing Season Source: Dated: PRIMARY INDICATORS: **SECONDARY INDICATORS (2 or more required)** Inundation (Depth Oxidized Root Channels in Upper 12" Saturation in Upper 12" (Depth Water-stained Leaves Watermarks Local Soil Survey **Driftlines FAC Neutral Test** Sediment Deposits Other (Buttressed trees, Stooling) Drainage Patterns Remarks: No indicators observed CONCLUSIONS

|            | ohytes Prevalent<br>nd Hydrology |               |       | No_Hydric Soils<br>No_Wetland?                  |
|------------|----------------------------------|---------------|-------|-------------------------------------------------|
| Remarks:   |                                  |               | e e e |                                                 |
|            | nel; D. Roberts                  | & B. Anderson |       |                                                 |
| Review: () | A Money                          |               | Da    | ate: /2 2 98<br>July 14, 1994 BOILER\DELIN1.FRN |

| Project Title: NEIP Wetlands                                            | Date: 9/25/98           |  |
|-------------------------------------------------------------------------|-------------------------|--|
| Location: AOC4, Northeastern Industrial Park, Guilderland, NY           | County: Albany          |  |
| Do Normal Circumstances exist on site? Yes                              | Transect: 2             |  |
| Is the site significantly disturbed? No                                 | Flag #: H64             |  |
| Is the area a potential problem area? No                                | WETLAND OR UPLAND? WET  |  |
| REMARKS: Forested wetland between C&D landfill toe and railroad tracks. | Ipland is railroad bed. |  |

| VEGETATION                                             |                  |                     |                 |
|--------------------------------------------------------|------------------|---------------------|-----------------|
| Dominant Plants by Stratum                             | Percent<br>cover | Dominant<br>Species | NWI<br>Status   |
| TREES:                                                 |                  |                     |                 |
| Fraxinus pennsylvanica, Green ash                      | 5                | Yes                 | FACW            |
| Ulmus rubra, Slippery elm                              | 5                | Yes                 | FAC             |
|                                                        |                  |                     |                 |
|                                                        |                  |                     |                 |
| dominance ratio 50%= 10 20%= 4 total=                  | 10               |                     |                 |
| SAPLINGS (<5" dbh, >20"):                              |                  |                     |                 |
| Fraxinus pennsylvanica, Green ash                      | 2                | Yes                 | FACW            |
| Rhamnus frangula, Glossy buckthorn                     | 1                | Yes                 | FAC             |
|                                                        |                  |                     |                 |
| dominance ratio 50%= 1.5 20%= 0.6 total=               | 3                |                     |                 |
| SHRUBS (3-20'): Fraxinus pennsylvanica, Green ash      | 5                | Yes                 | FACW            |
| Rhamnus frangula, Glossy buckthorn                     | 2                | No                  | FAC             |
| Comus foemina, Stiff dogwood                           | 5                | Yes                 | FAC             |
| Acer rubrum, Red maple                                 | 1                | No                  | FAC             |
| Cornus stolonifera, Red osier dogwood                  | 1                | No                  | FACW            |
| Ulmus rubra, Slippery elm                              | 2                | No                  | FAC             |
| dominance ratio 50%= 8 20%= 3.2 total=                 | 16               |                     |                 |
| HERBS AND SEEDLINGS:                                   |                  | e di da e e e edig  |                 |
|                                                        |                  |                     |                 |
| Carex lurida, Shallow sedge                            | 10               | Yes                 | OBL             |
| Acer rubrum, Red maple                                 | 1                | No                  | FAC             |
| Lysimachia nummularia, Creeping Jennie                 | 10               | Yes                 | OBL             |
| Lythrum salicaria, Purple loosestrife                  | 10               | Yes                 | FACW            |
| Carex cristatella, Crested sedge                       | 1                | No                  | FACW            |
|                                                        |                  |                     |                 |
|                                                        |                  |                     |                 |
| dominance ratio 50%= 16 20%= 6.4 Total=                | 32               |                     | <u> </u>        |
| Tally of Dominants: OBL= 2 FACW= 4 FAC*= FAC= 3 FAC= F | ACU= UPL=        | SUM= 9              |                 |
| [OBL+FACW+FAC+FAC] X 100 = 100%                        | Area Disturb     | ed? No              |                 |
| SUM                                                    | Describe:        | ·                   | tinued on other |

Sample Location: AOC4, Flag H64, Wetland

|                                   |              |                                   | SOIL                          | A CONTRACTOR OF THE STATE OF TH |
|-----------------------------------|--------------|-----------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Depth                             | Horizon      | Munsell Color (wet)               | USDA Texture (wet)            | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 0-3"                              | Ар           | Matrix: 10/YR3/1<br>Mottles:      | Silt loam                     | Mottles fine, soils friable, many fine roots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3-6"                              | AB           | Matrix:10YR5/1<br>Mottles:10YR6/8 | Clay loam                     | Tight, blocky, mottle prominant, many                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 6-12"                             | Bg1          | Matrix:N3/0<br>Mottles:7.5YR5/8   | Clay loam                     | Blocky, dark gray, mottles fine, many                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                   |              | Matrix:<br>Mottles:               |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Soil Taxonomy: Mollic Fluvaquents |              |                                   | Permeability: Moderately slow | Drainage Class: poorly drained                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Series a                          | nd Phase: V  | Vayland                           | Field observations confirm    | map type? Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Or                                | ganic soil   |                                   | Reducing Conditions           | NTCHS list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| His                               | stic Epipedo | n                                 | Sulfidic Odor                 | Local Hydric Soil List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| X Gle                             | yed or low-  | chroma colors                     | Aquic Moisture Regime         | and the second s |
| Da                                | rk Vertical  | Streaking of Subsurface           | Horizons (sandy soils)        | Other (explain)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Hiç                               | gh Organic ( | Content in Surface Horiz          | on (sandy soils)              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Remark                            | s: Low chro  | ma colored matrix with n          | nottles at 8 inches           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                   |              |                                   |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|                                                                                                                            | <u> </u>                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HYDRO                                                                                                                      | DLOGY                                                                                                                                                                                              |
| Recorded Data Indicating Inundation or Saturation Source: Da                                                               | for Extended Period During the Growing Season ted:                                                                                                                                                 |
| PRIMARY INDICATORS:Inundation (Depth)Saturation in Upper 12" (Depth)WatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  X Oxidized Root Channels in Upper 12" Water-stained Leaves X Local Soil Survey X FAC Neutral Test X Other (Buttressed trees, Stooling) Buttressed trees |
| Remarks:                                                                                                                   |                                                                                                                                                                                                    |

|              | CONCLI                             | JSIONS                        |
|--------------|------------------------------------|-------------------------------|
| Yes Hydro    | ophytes Prevalent<br>and Hydrology | Yes Hydric Soils Yes Wetland? |
| Remarks:     |                                    |                               |
| Field Persor | nnel: D. Roberts & B. Anderson     |                               |
| Review: 🍞    | A Pobert                           | Date: 12/2 95                 |

| Project Title: NEIP Wetlands                                     |             | Date: 9/25/98           |
|------------------------------------------------------------------|-------------|-------------------------|
| Location: AOC4, Northeastern Industrial Park, Guilderland, NY    |             | County: Albany          |
| Do Normal Circumstances exist on site? Yes                       |             | Transect: 3             |
| Is the site significantly disturbed? No                          |             | Flag #: H69             |
| Is the area a potential problem area? No                         |             | WETLAND OR UPLAND? WET  |
| REMARKS: Forested floodplain wetland of Black Creek, near railro | oad tracks. | Upland is railroad bed. |

| VEGETATION                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                  |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|
| Dominant Plants by Stratum                                                                                     | Percent<br>cover                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Dominant<br>Species   | NWI<br>Status    |
| TREES:                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                  |
| Fraxinus pennsylvanica, Green ash                                                                              | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Yes                   | FACW             |
| Acer saccharinum, Silver maple                                                                                 | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Yes                   | FACW             |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | 0.7              |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                  |
| dominance ratio 50%= 10 20%= 4 total=                                                                          | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       |                  |
| SAPLINGS (<5" dbh, >20"):                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                  |
| Fraxinus pennsylvanica, Green ash                                                                              | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                    | FACW             |
| Rhamnus frangula, Glossy buckthom                                                                              | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Yes                   | FAC              |
| Quercus bicolor, Swamp white oak                                                                               | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Yes                   | FACW             |
| Ulmus rubra, Slippery elm                                                                                      | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                    | FAC              |
| dominance ratio 50%= 25 20%= 10 total=                                                                         | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | Mary Control     |
| SHRUBS (3-20'):                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | h                |
| Rhamnus frangula, Glossy buckthom                                                                              | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Yes                   | FAC              |
| Cornus foemina, Stiff dogwood                                                                                  | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Yes                   | FAC              |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                  |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>, taking sarik</u> |                  |
| dominance ratio 50%= 5 20%= 2 total=                                                                           | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | 2.5              |
| HERBS AND SEEDLINGS:                                                                                           | and the second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                       | The state of the |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                  |
| Carex lurida, Shallow sedge                                                                                    | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Yes                   | OBL              |
| Glyceria canadensis, Canada manna grass                                                                        | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Yes                   | OBL              |
| Lysimachia nummularia, Creeping Jennie                                                                         | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                    | OBL              |
|                                                                                                                | es de la composition della com |                       |                  |
|                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                  |
| A MARKET CONTROL OF THE SECOND SE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                  |
|                                                                                                                | The state of the s |                       |                  |
| dominance ratio 50%= 5.5 20%= 2.2 Total=                                                                       | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                       | <u> </u>         |
| Tally of Dominants: OBL= 2 FACW= 3 FAC*= FAC= 3 FAC=                                                           | FACU= UPL=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SUM= 8                |                  |
| [OBL+FACW+FAC+FAC] X 100 = 100%<br>SUM                                                                         | Area Disturi<br>Describe:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | bed? No               |                  |

Sample Location: AOC4, Flag H69, Wetland

|            | Munsell Color (wet) Matrix: 10/YR3/1 Mottles:7.5YR4 /6 Matrix:10YR4/0 Mottles:10YR4/6 Matrix: Mottles: | USDA Texture (wet) Silt loam Clay loam                                                                        | Remarks  Mottles fine, soils friable, oxidized roots present  Tight, blocky                                                                    |
|------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|            | Mottles:7.5YR4 /6 Matrix:10YR4/0 Mottles:10YR4/6 Matrix:                                               |                                                                                                               | dized roots present                                                                                                                            |
| [<br>  ]   | Mottles:10YR4/6<br>Matrix:                                                                             | Clay loam                                                                                                     | Tight, blocky                                                                                                                                  |
|            |                                                                                                        |                                                                                                               |                                                                                                                                                |
| 1          |                                                                                                        |                                                                                                               | <u> </u>                                                                                                                                       |
|            | Matrix:<br>Mottles:                                                                                    |                                                                                                               | ner e werke.<br>Priestrieg                                                                                                                     |
| y: Mollic  | Fluvaquents                                                                                            | Permeability: Moderately slow                                                                                 | Drainage Class: poorly drained                                                                                                                 |
| nase: Wa   | yland                                                                                                  | Field observations confirm n                                                                                  | nap type? Yes                                                                                                                                  |
| soil       |                                                                                                        | Reducing Conditions                                                                                           | NTCHS list                                                                                                                                     |
| pipedon    |                                                                                                        | Sulfidic Odor                                                                                                 | Local Hydric Soil List                                                                                                                         |
| or low-ch  | roma colors                                                                                            | Aquic Moisture Regime                                                                                         |                                                                                                                                                |
| rtical Str | reaking of Subsurface I                                                                                | Horizons (sandy soils)                                                                                        | Other (explain)                                                                                                                                |
| ganic Co   | ontent in Surface Horizo                                                                               | on (sandy soils)                                                                                              |                                                                                                                                                |
|            | • • • • • • • • • • • • • • • • • • • •                                                                |                                                                                                               |                                                                                                                                                |
|            | y: Mollic<br>ase: Wa<br>soil<br>pipedon<br>r low-ch<br>rtical Str                                      | Mottles: y: Mollic Fluvaquents ase: Wayland soil bipedon r low-chroma colors rtical Streaking of Subsurface I | Mottles: y: Mollic Fluvaquents ase: Wayland soil Permeability: Moderately slow Field observations confirm of Reducing Conditions Sulfidic Odor |

| HYDR                                                                                                                       | OLOGY                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recorded Data Indicating Inundation or Saturation Source:                                                                  | for Extended Period During the Growing Season ited:                                                                                                                                   |
| PRIMARY INDICATORS:Inundation (Depth)Saturation in Upper 12" (Depth)WatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  X Oxidized Root Channels in Upper 12"  X Water-stained Leaves  X Local Soil Survey  X FAC Neutral Test  Other (Buttressed trees, Stooling) |
| Remarks:                                                                                                                   |                                                                                                                                                                                       |

| CONCL                                                                                        | USIONS                                                |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Yes Hydrophytes Prevalent Yes Wetland Hydrology                                              | Yes Hydric Soils Yes Wetland?                         |
| Remarks: Floodplain forest along Black Creek. D. Rob during flood conditions in Black Creek. | erts observed this area to be inundated in June 1998, |
| Field Personnel: D. Roberts & B. Anderson                                                    |                                                       |
| Review: DA Politico                                                                          | Date: 12/98                                           |

July 14, 1994 BOILER\DELIN1.FRM

| Location: AOC1, Northeastern Industrial Park, Guilderland, NY  County: Alt  Do Normal Circumstances exist on site? Yes  Transect: 3 | any                    |  |
|-------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|
| Do Normal Circumstances exist on site? Yes Transect: 3                                                                              |                        |  |
|                                                                                                                                     |                        |  |
| Is the site significantly disturbed? Yes Flag #: J20                                                                                |                        |  |
| Is the area a potential problem area? No WETLAND                                                                                    | WETLAND OR UPLAND? WET |  |

| VEGETATION                                           |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
|------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Dominant Plants by Stratum                           | Percent<br>cover            | Dominant<br>Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NWI<br>Status |
| TREES: None                                          |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
| Ulmus rubra, Slippery elm                            | 10.                         | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FAC           |
|                                                      |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
|                                                      |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
|                                                      |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
| dominance ratio 50%= 20%= total=                     | 10                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
| SAPLINGS (<5" dbh, >20'): None                       |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
| Ulmus rubra, Slippery elm                            | 10                          | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FAC           |
|                                                      |                             | · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |
|                                                      |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
| dominance ratio 50%= 20%= total=                     | 10                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
|                                                      | [ 10 .                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
| SHRUBS (3-20'): None  Comus foemina, Stiff dogwood   | 5                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FAC           |
| Cornus roemina, Sun dogwood                          |                             | 163                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | IAO           |
|                                                      |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
|                                                      |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
| dominance ratio 50%= 20%= total=                     |                             | 3 N <sub>3</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |
| HERBS AND SEEDLINGS:                                 |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
|                                                      |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
| Lycopus americanus, American bugleweed               | 1                           | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | OBL           |
| Lythrum salicaria, Purple loosestrife                | 50                          | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | FACW          |
| Euthamia graminifolia, Flat-top goldenrod            | 5                           | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FAC           |
|                                                      | and the second of the       | A STATE OF THE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
|                                                      |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
|                                                      |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
|                                                      |                             | The supervised linear control of |               |
| dominance ratio 50%= 28 20%= 11 Total=               | 56                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |
| Tally of Dominants: OBL= FACW= 1 FAC*= FAC= 3 FAC= F | ACU= UPL=                   | SUM= 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |
| [OBL+FACW+FAC*+FAC] X 100 = 100%<br>SUM              | Area Disturb<br>Describe: O |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |

Sample Location: AOC1, Flag J20, Wetland

|                                       |               |                                     | SOIL                   |                                                                     |
|---------------------------------------|---------------|-------------------------------------|------------------------|---------------------------------------------------------------------|
| Depth                                 | Horizon       | Munsell Color (wet)                 | USDA Texture (wet)     | Remarks                                                             |
| 0-6 "                                 | Α             | Matrix: 10YR3/1<br>Mottles:         | Sandy loam             | oderen i de janetaren italiakoakoakoakoakoakoakoakoakoakoakoakoakoa |
| 7-12"                                 | В             | Matrix: 10YR3/1<br>Mottles: 10YR5/4 | Sandy loam             | Mottles common, distinct                                            |
| <b>0</b>                              |               | Matrix:<br>Mottles:                 |                        |                                                                     |
| • • • • • • • • • • • • • • • • • • • |               | Matrix:<br>Mottles:                 |                        |                                                                     |
| Soil Tax                              | onomy: Udo    | orthents, loamy                     | Permeability:          | Drainage Class: mod. well-drained                                   |
| Series a                              | nd Phase: \   | Jdorthents, loamy                   | Field observations     | confirm map type? Yes                                               |
| Or                                    | ganic soil    |                                     | Reducing Conditions    | NTCHS list                                                          |
| Histic Epipedon Sulfidic Odor         |               | Local Hydric Soil List              |                        |                                                                     |
| X GI                                  | eyed or low-  | chroma colors                       | Aquic Moisture Regime  |                                                                     |
| Da                                    | rk Vertical S | Streaking of Subsurface I           | lorizons (sandy soils) | Other (explain)                                                     |
| Hiç                                   | gh Organic (  | Content in Surface Horizo           | on (sandy soils)       |                                                                     |
| Remark                                | s: Low chro   | ma colors dominant withi            | n 12 inches.           |                                                                     |

| HYD                                                                                                                               | ROLOGY                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                   | on for Extended Period During the Growing Season Dated:                                                                                                                                                                                                                                                                   |
| PRIMARY INDICATORS:Inundation (Depth)X_Saturation in Upper 12" (Depth _ 1")WatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  Oxidized Root Channels in Upper 12"  Water-stained Leaves  Local Soil Survey  FAC Neutral Test Other (Buttressed trees, Stooling)                                                                                                                                              |
| Remarks: Water saturated to surface in wetland                                                                                    | n (1995) - Frankling State (1995) - Frankling State (1995) - Frankling State (1995)<br>24. Oktober - Alle State (1995) - Frankling State (1995) - Frankling State (1995) - Frankling State (1995) - Fr<br>24. Oktober - Frankling State (1995) - Frankling State (1995) - Frankling State (1995) - Frankling State (1995) |

| CONCLUSIONS CONTRACTOR |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| <u>Yes</u> Hydrophytes Prevalent <u>Yes</u> Wetland Hydrology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes Hydric Soils Yes Wetland?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |
| Remarks: Distinct channel with steep banks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | and the Market Market and the second section of the sectio |  |  |  |  |
| Field Personnel: D. Roberts & B. Anderson                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |
| Review: DA Robert                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Date: 12/2/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |

July 14, 1994 BOILER\DELIN1.FRM

| Project Title: NEIP Wetlands<br>Location: AOC1, Northeastern Industrial Park, Guilderland, NY | Date: 10/14/98<br>County: Albany |  |  |
|-----------------------------------------------------------------------------------------------|----------------------------------|--|--|
| Do Normal Circumstances exist on site? Yes                                                    | Transect:                        |  |  |
| Is the site significantly disturbed? Yes                                                      | Flag #: J20                      |  |  |
| Is the area a potential problem area? No                                                      | WETLAND OR UPLAND? UPL           |  |  |

| VEGETATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |                     |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------|---------------|
| Dominant Plants by Stratum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Percent<br>cover             | Dominant<br>Species | NWI<br>Status |
| TREES: None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |                     |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ·                            |                     |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |               |
| dominance ratio 50%= 20%= total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                     |               |
| SAPLINGS (<5" dbh, >20"): None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |                     |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |               |
| The second state of the second |                              |                     |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     | <u>.</u>      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |               |
| dominance ratio 50%= 20%= total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                     |               |
| SHRUBS (3-20'):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     | 1             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 50                           | Yes                 | FAC           |
| Comus foemina, Stiff dogwood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 30                           | 163                 | 170           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |               |
| dominance ratio 50%= 20%= total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                     |               |
| HERBS AND SEEDLINGS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | turi e ili tiri gerektiri. E |                     |               |
| Centaurea maculosa, Spotted knapweed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 50                           | Yes                 | UPL           |
| Cornus foemina, Stiff dogwood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10                           | Yes                 | FAC           |
| Fragaria virginiana, Virginia strawberry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2                            | Yes                 | FACU          |
| Daucus carota, Queen Anne's Lace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                            | Yes                 | UPL           |
| Unknown grass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30.                          | Yes                 | -             |
| Citicionii gi doc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                     |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |               |
| dominance ratio 50%= 47 20%=18.8 Total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 94                           |                     |               |
| Tally of Dominants: OBL= FACW= FAC+= FAC= 2 FAC= FAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | :U= 1 UPL= 2                 | SUM= 6              |               |
| [OBL+FACV+FAC] X 100 = 2 -3 /6 = 33-50%<br>SUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Area Disturb<br>Describe: Ol |                     |               |

Sample Location: AOC1, Flag J20, Upland

|                                                              |               | ie nacji i secile i oda.    | SOIL                                                  |                                                                                    |  |
|--------------------------------------------------------------|---------------|-----------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------|--|
| Depth                                                        | Horizon       | Munsell Color (wet)         | USDA Texture (wet)                                    | Remarks                                                                            |  |
| 0-10"                                                        |               | Matrix: 10YR2/1<br>Mottles: | Gravelly fill                                         | Fill consisting gravel and pieces of brick. Friable                                |  |
| ti-                                                          |               | Matrix:<br>Mottles:         |                                                       |                                                                                    |  |
| 99                                                           | A Company     | Matrix:<br>Mottles:         | apada kanalari ing Pasakana na Pasakan<br>Ng Pasakana | en kan jer karamen en er er er ek 120 sej film.<br>En 1988 jedin sjan i skelet i 1 |  |
| , II                                                         |               | Matrix:<br>Mottles:         |                                                       |                                                                                    |  |
| Soil Taxonomy: Udorthents, loamy                             |               |                             | Permeability:                                         | Drainage Class: mod. well-drained                                                  |  |
| Series a                                                     | nd Phase: 1   | Udorthents, loamy           | Field observations                                    | confirm map type? Yes                                                              |  |
| Or                                                           | ganic soil    |                             | Reducing Conditions                                   | NTCHS list                                                                         |  |
| His                                                          | stic Epipedo  | n                           | Sulfidic Odor                                         | Local Hydric Soil List                                                             |  |
| Gl                                                           | eyed or low-  | -chroma colors              | Aquic Moisture Regime                                 |                                                                                    |  |
| Da                                                           | rk Vertical S | Streaking of Subsurface I   | Horizons (sandy soils)                                | Other (explain)                                                                    |  |
| Hi                                                           | gh Organic    | Content in Surface Horize   | on (sandy soils)                                      |                                                                                    |  |
| Remarks: Soils appear to be fill material, matching map type |               |                             |                                                       |                                                                                    |  |

| HYDRO                                                                                                                      | DLOGY                                                                                                                                                                        |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Recorded Data Indicating Inundation or Saturation for Extended Period During the Growing Season  Source: Dated:            |                                                                                                                                                                              |  |  |  |
| PRIMARY INDICATORS:Inundation (Depth)Saturation in Upper 12" (Depth)WatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  Oxidized Root Channels in Upper 12"  Water-stained Leaves  Local Soil Survey  FAC Neutral Test Other (Buttressed trees, Stooling) |  |  |  |
| Remarks: No indicators observed                                                                                            |                                                                                                                                                                              |  |  |  |

|                                                   | CONCLUSIONS                 |
|---------------------------------------------------|-----------------------------|
| No Hydrophytes Prevalent No Wetland Hydrology     | No_Hydric Soils No_Wetland? |
| Remarks: Upland field on fill, dominated at the b | porders by gray dogwood     |
| Field Personnel: D. Roberts & B. Anderson         |                             |
| Review: A Robert                                  | Date: 12/2/98               |

| Project Title: NEIP Wetlands                                  | 7. | Date: 10/16/98         |
|---------------------------------------------------------------|----|------------------------|
| Location: AOC1, Northeastern Industrial Park, Guilderland, NY |    | County: Albany         |
| Do Normal Circumstances exist on site? Yes                    |    | Transect: 2            |
| Is the site significantly disturbed? Yes                      |    | Flag #: K43            |
| Is the area a potential problem area? No                      |    | WETLAND OR UPLAND? WET |
| REMARKS: Scrub/shrub wetland in a swale, surrounded by fill   |    |                        |

| VEGETATION                                             |                                         |                     |               |
|--------------------------------------------------------|-----------------------------------------|---------------------|---------------|
| Dominant Plants by Stratum                             | Percent cover                           | Dominant<br>Species | NWI<br>Status |
| TREES:                                                 |                                         |                     |               |
| Fraxinus pennsylvanica, Green ash                      | 10                                      | Yes                 | FACW          |
| Ulmus rubra, Slippery elm                              | 5                                       | Yes                 | FAC           |
|                                                        |                                         |                     |               |
|                                                        |                                         |                     |               |
| dominance ratio 50%= 7.5 20%= 3 total=                 | 15                                      |                     |               |
| SAPLINGS (<5" dbh, >20"):                              |                                         | the state of the    |               |
| Fraxinus pennsylvanica, Green ash                      | 10                                      | Yes                 | FACW          |
| Ulmus rubra, Slippery elm                              | 10                                      | Yes                 | FAC           |
|                                                        |                                         |                     |               |
|                                                        | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                     | 1. 1. 1.      |
| dominance ratio 50%= 10 20%= 4 total=                  | 20                                      |                     |               |
| SHRUBS (3-20'):                                        |                                         |                     |               |
| Rhamnus frangula, Glossy buckthorn                     | 5                                       | Yes                 | FAC           |
| Cornus foemina, Stiff dogwood                          | 5                                       | Yes                 | FAC           |
| Fraxinus pennsylvanica, Green ash                      | 10                                      | Yes                 | FACW          |
|                                                        |                                         |                     |               |
| dominance ratio 50%= 15 20%= 6 total=                  | 30                                      |                     |               |
| HERBS AND SEEDLINGS:                                   | eulin nijewa ji sin                     | on the land         | njas i i i    |
|                                                        |                                         | and the desired     | ar av a e T   |
| Fraxinus pennsylvanica, Green ash                      | 5                                       | No                  | FACW          |
| Lythrum salicaria, Purple loosestrife                  | 5                                       | No                  | FACW          |
| Glyceria canadensis, Canada manna grass                | 30                                      | Yes                 | OBL           |
|                                                        |                                         |                     |               |
|                                                        |                                         |                     |               |
|                                                        |                                         |                     |               |
|                                                        |                                         |                     |               |
| dominance ratio 50%= 20 20%= 4 Total=                  | 40                                      |                     |               |
| Tally of Dominants: OBL= 1 FACW= 3 FAC*= FAC= 4 FAC= F | ACU= UPL=                               | SUM= 8              |               |
| [OBL+FACW+FAC*+FAC] X 100 = 100%<br>SUM                | Area Disturb<br>Describe: fil           |                     |               |

Sample Location: \_\_\_AOC1, Flag K43, Wetland

|          |                    |                                      | SOIL                   |                                   |
|----------|--------------------|--------------------------------------|------------------------|-----------------------------------|
| Depth    | Horizon            | Munsell Color (wet)                  | USDA Texture (wet)     | Remarks                           |
| 0-6"     | Ар                 | Matrix: 10/YR3/1<br>Mottles:7.5YR4/6 | Sandy loam             |                                   |
| 6-12"    | В                  | Matrix:10YR4/1<br>Mottles:10YR5/6    | Sandy loam             |                                   |
| n        |                    | Matrix:<br>Mottles:                  |                        |                                   |
| 79       | na suu s<br>A dasj | Matrix:<br>Mottles:                  |                        |                                   |
| Soil Tax | onomy: Udo         | orthents, loamy                      | Permeability:          | Drainage Class: mod. well-drained |
| Series a | nd Phase:          | Udorthents, loamy                    | Field observation      | s confirm map type? Yes           |
| Or       | ganic soil         |                                      | Reducing Conditions    | NTCHS list                        |
| His      | stic Epipedo       | on                                   | Sulfidic Odor          | Local Hydric Soil List            |
| X Gle    | eyed or low-       | chroma colors                        | Aquic Moisture Regime  |                                   |
| Da       | rk Vertical S      | Streaking of Subsurface I            | Horizons (sandy soils) | Other (explain)                   |
| Hi       | gh Organic (       | Content in Surface Horize            | on (sandy soils)       |                                   |
| Remark   | s: Soils app       | ear to be old fill material          | , matching map type    |                                   |
|          |                    |                                      |                        |                                   |

| HYDR                                                                                                                        | OLOGY                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recorded Data Indicating Inundation or Saturation Source:                                                                   | n for Extended Period During the Growing Season ated:                                                                                                                             |
| PRIMARY INDICATORS:Inundation (Depth)Saturation in Upper 12" (Depth) WatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  X Oxidized Root Channels in Upper 12"  Water-stained Leaves  Local Soil Survey  X FAC Neutral Test  Other (Buttressed trees, Stooling) |
| Remarks:                                                                                                                    |                                                                                                                                                                                   |

| CONC                                            | LUSIONS                       |
|-------------------------------------------------|-------------------------------|
| Yes Hydrophytes Prevalent Yes Wetland Hydrology | Yes Hydric Soils Yes Wetland? |
| Remarks:                                        |                               |
|                                                 |                               |
| Field Personnel: D. Roberts & B. Anderson       |                               |
| Review: DA Robert                               | Date: 12/2/98                 |

| Project Title: NEIP Wetlands Location: AOC1, Northeastern Industrial Park, Guilderland, NY Co | unty: Albany          |
|-----------------------------------------------------------------------------------------------|-----------------------|
|                                                                                               | unty. Albany          |
| Do Normal Circumstances exist on site? Yes Tra                                                | ansect: 2             |
| <b>I</b>                                                                                      | ag #: K43             |
|                                                                                               | ETLAND OR UPLAND? UPL |

| VEGETATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              | .4                  |                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------|------------------------------------------|
| Dominant Plants by Stratum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Percent<br>cover             | Dominant<br>Species | NWI<br>Status                            |
| TREES: None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |                     |                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |                                          |
| dominance ratio 50%= 20%= total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                     |                                          |
| SAPLINGS (<5" dbh, >20'): None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |                     |                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     | 41 14 A A                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |                                          |
| dominance ratio 50%= 20%= total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                     | <u> </u>                                 |
| SHRUBS (3-20'): None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              | 1975                |                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     | <u> </u>                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |                                          |
| dominance ratio 50%= 20%= total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                     |                                          |
| dominano raio do la companya de la c |                              |                     | <u> </u>                                 |
| HERBS AND SEEDLINGS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              | -                   | - 14 (14 (14 (14 (14 (14 (14 (14 (14 (14 |
| Centaurea maculosa, Spotted knapweed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 60                           | Yes                 | UPL                                      |
| Rumex crispus, Curly dock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5                            | Yes                 | FACU                                     |
| Daucus carota, Queen Anne's Lace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                            | Yes                 | UPL                                      |
| Equisetum arvense, Field horsetail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2                            | Yes                 | FAC                                      |
| Equipotant di surror, i rora morastan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |                     | 1                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                     |                                          |
| dominance ratio 50%= 34.5 20%= 13.8 Total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 69                           |                     |                                          |
| Tally of Dominants: OBL= FACW= FAC*= FAC= 1 FAC*= FAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | U= 1 UPL= 2                  | SUM= 4              |                                          |
| [OBL+FACW+FAC*+FAC] X 100 = 1/4 = 25%<br>SUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Area Disturb<br>Describe: Fo | ed? Yes             |                                          |

AOC1, Flag K43, Upland Sample Location: SOIL **Munsell Color (wet) USDA Texture (wet)** Remarks Depth Horizon Matrix: Concrete rubble, fill Mottles: Matrix: Mottles: Matrix: Mottles: Matrix: Mottles: Soil Taxonomy: Udorthents, loamy Permeability: Drainage Class: mod. well-drained Series and Phase: Udorthents, loamy Field observations confirm map type? Yes **Reducing Conditions NTCHS list** Organic soil Sulfidic Odor Local Hydric Soil List Histic Epipedon Gleved or low-chroma colors Aquic Moisture Regime Dark Vertical Streaking of Subsurface Horizons (sandy soils) Other (explain) High Organic Content in Surface Horizon (sandy soils) Remarks: Soils appear to be fill material, matching map type **HYDROLOGY** Recorded Data Indicating Inundation or Saturation for Extended Period During the Growing Season Source: Dated: **PRIMARY INDICATORS:** SECONDARY INDICATORS (2 or more required) Inundation (Depth Oxidized Root Channels in Upper 12" Saturation in Upper 12" (Depth Water-stained Leaves Local Soil Survey Watermarks Driftlines **FAC Neutral Test** Other (Buttressed trees, Stooling) Sediment Deposits Drainage Patterns Remarks: No indicators observed CONCLUSIONS No Hydric Soils No Hydrophytes Prevalent No Wetland Hydrology No Wetland? Remarks: Field Personnel: D. Roberts & B. Anderson

Date: 12 /

Review:

|                                                   | y: Albany          |
|---------------------------------------------------|--------------------|
|                                                   |                    |
| Do Normal Circumstances exist on site? Yes Transe | ect:               |
| Is the site significantly disturbed? No Flag #    | : N31              |
| Is the area a potential problem area? No WETL     | AND OR UPLAND? WET |

| VEGETATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | - :                       |                     | and the second |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------|----------------|
| Dominant Plants by Stratum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Percent<br>cover          | Dominant<br>Species | NWI<br>Status  |
| TREES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |                     |                |
| Salix sp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15                        | Yes                 | FACW           |
| Fraxinus pennsylvanica, Green ash                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5                         | Yes                 | FACW           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                     |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                     |                |
| dominance ratio 50%= 10 20%= 4 total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 20                        |                     |                |
| SAPLINGS (<5" dbh, >20"): None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                           | 14.                 |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                     |                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                     |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                     |                |
| dominance ratio 50%= 20%= total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |                     |                |
| SHRUBS (3-20'):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                     |                |
| Cornus foemina, Stiff dogwood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20                        | Yes                 | FAC            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                     |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                     |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                     |                |
| dominance ratio 50%= 20%= total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20                        |                     |                |
| HERBS AND SEEDLINGS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                     |                |
| Cornus foemina, Stiff dogwood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20                        | Yes                 | FAC            |
| Solidago canadensis, Canada goldenrod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10                        | No                  | FACU           |
| Solidago gigantea, Giant goldenrod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10                        | No                  | FACW           |
| Euthamia graminifolia, Flat-top goldenrod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 50                        | Yes                 | FAC            |
| Carex sp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5                         | No                  | -              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                     | i i            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                     |                |
| agent general in the control of the<br>The control of the control of |                           |                     |                |
| dominance ratio 50%= 47.5 20%= 19 Total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 95                        | The state of the    |                |
| Tally of Dominants: OBL= FACW= 2 FAC*= FAC= 3 FAC= FA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CU= UPL=                  | SUM= 5              |                |
| [OBL+FACW+FAC+FAC] X 100 = 100%<br>SUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Area Disturb<br>Describe: | ed? No              |                |

Sample Location: AOC1, Flag N31, Wetland

|                                         |              |                                    | SOIL                                   |                                                                                                                                                                                                                                 |  |
|-----------------------------------------|--------------|------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Depth                                   | Horizon      | Munsell Color (wet)                | USDA Texture (wet)                     | Remarks                                                                                                                                                                                                                         |  |
| 0-4"                                    | Ар           | Matrix: 10YR3/1<br>Mottles:        | Gravelly silt loam                     | Friable, many fine roots                                                                                                                                                                                                        |  |
| 4-12"                                   | AB           | Matrix:10/YR4/1<br>Mottles:10YR5/6 | Silt loam                              |                                                                                                                                                                                                                                 |  |
| 12-14"                                  | Bg1          | Matrix:10YR5/1<br>Mottles:10YR5/6  | Silty clay loam                        | Large mottles, distinct.<br>Blocky                                                                                                                                                                                              |  |
|                                         |              | Matrix:<br>Mottles:                |                                        | e de la composition de la composition<br>La composition de la |  |
| Soil Taxonomy: Mollic Fluvaquents       |              |                                    | Permeability: Moderately slow          | Drainage Class: poorly drained                                                                                                                                                                                                  |  |
| Series a                                | nd Phase: V  | Nayland silt loam                  | Field observations                     | confirm map type? Yes                                                                                                                                                                                                           |  |
| Or                                      | ganic soil   |                                    | Reducing Conditions                    | X NTCHS list                                                                                                                                                                                                                    |  |
| Hi                                      | stic Epipedo | on                                 | Sulfidic Odor                          | Local Hydric Soil List                                                                                                                                                                                                          |  |
| X GI                                    | eyed or low  | -chroma colors                     | Aquic Moisture Regime                  |                                                                                                                                                                                                                                 |  |
| Dark Vertical Streaking of Subsurface I |              |                                    | Horizons (sandy soils)                 | Other (explain)                                                                                                                                                                                                                 |  |
|                                         |              | Content in Surface Horiz           | ************************************** |                                                                                                                                                                                                                                 |  |
|                                         | <u> </u>     | oma colored matrix with n          |                                        |                                                                                                                                                                                                                                 |  |

| HYDR                                                                                                                       | OLOGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Recorded Data Indicating Inundation or Saturation for Extended Period During the Growing Season Source: Dated:             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |
| PRIMARY INDICATORS:Inundation (Depth)Saturation in Upper 12" (Depth)WatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  X Oxidized Root Channels in Upper 12"  Water-stained Leaves  X Local Soil Survey  X FAC Neutral Test  Other (Buttressed trees, Stooling)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |
| Remarks: Water saturated to surface in wetland                                                                             | A PART TO THE STREET HER SERVICE TO THE SERVICE OF |  |  |  |

|                                                                            | CONCLUSIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Yes</u> Hydrophytes Prevalent<br><u>Yes</u> Wetland Hydrology           | Yes Hydric Soils Yes Wetland?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Remarks: Upper boundary of emergent cattail-do and goldenrods at boundary. | minated wetland. Vegetation characterized by gray dogwood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Field Personnel: D. Roberts & B. Anderson                                  | The second secon |
| Review: D4 Chest                                                           | Date: 12/2/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| Project Title: NEIP Wetlands                                  | Date: 10/19/98         |  |  |
|---------------------------------------------------------------|------------------------|--|--|
| Location: AOC1, Northeastern Industrial Park, Guilderland, NY | County: Albany         |  |  |
| Do Normal Circumstances exist on site? Yes                    | Transect:              |  |  |
| Is the site significantly disturbed? No                       | Flag #: N31            |  |  |
| Is the area a potential problem area? No                      | WETLAND OR UPLAND? UPL |  |  |
| REMARKS:                                                      |                        |  |  |

| VEGETATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |                     |               |
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| Dominant Plants by Stratum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Percent<br>cover                      | Dominant<br>Species | NWI<br>Status |
| TREES: None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A A A A A A A A A A A A A A A A A A A |                     |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                     |               |
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| dominance ratio 50%= 20%= total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                       |                     |               |
| SAPLINGS (<5" dbh, >20'): None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |                     |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                     |               |
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| dominance ratio 50%= 20%= total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                       |                     |               |
| SHRUBS (3-20'):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                     |               |
| Cornus foemina, Stiff dogwood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20                                    | Yes                 | FAC           |
| Populus tremula, Quaking aspen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                     | Yes                 | FACU          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                     |               |
| The state of the s |                                       |                     |               |
| dominance ratio 50%= 10.5 20%= 4.2 total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 21                                    |                     | <u> </u>      |
| HERBS AND SEEDLINGS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | g <u></u>                             |                     |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                     | ļ             |
| Solidago canadensis, Canada goldenrod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 50                                    | Yes                 | FACU          |
| Lonicera tartarica, Tartarian honeysuckle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5                                     | Yes                 | FACU          |
| Populus tremula, Quaking aspen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1                                     | Yes                 | FACU          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                     |               |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                     |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |                     |               |
| dominance ratio 50%= 28 20%= 11.2 Total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 56                                    |                     |               |
| Tally of Dominants: OBL= FACW= FAC*= FAC= 1 FAC*= FAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | U= 4 UPL=                             | SUM= 5              |               |
| [OBL+FACW+FAC*+FAC] X 100 = 1/5 = 20%<br>SUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Area Disturb<br>Describe:             | ed?                 |               |

Sample Location: AOC1, Flag N31, Upland SOIL **USDA** Texture (wet) Remarks Horizon Munsell Color (wet) Depth Gravelly fill Matrix: 10YR4/2 0-4" qΑ Mottles: 4-12" A2 Matrix:10YR4/2 Mottles: Matrix: 2.5Y6/3 12-16" Ba Mottles:10YR5/6 Matrix: Mottles: **Drainage Class:** Permeability: Soil Taxonomy: Udorthents, loamy Field observations confirm map type? No Series and Phase: Udorthents, loamy **NTCHS list Reducing Conditions** Organic soil Local Hydric Soil List Sulfidic Odor Histic Epipedon Aquic Moisture Regime Gleyed or low-chroma colors Other (explain) Dark Vertical Streaking of Subsurface Horizons (sandy soils) High Organic Content in Surface Horizon (sandy soils) Remarks: Mottles at 12 inches, but no low chroma matrix **HYDROLOGY** Recorded Data Indicating Inundation or Saturation for Extended Period During the Growing Season Dated: Source: SECONDARY INDICATORS (2 or more required) PRIMARY INDICATORS: Oxidized Root Channels in Upper 12" Inundation (Depth Water-stained Leaves Saturation in Upper 12" (Depth Local Soil Survey Watermarks **FAC Neutral Test** Driftlines Other (Buttressed trees, Stooling) Sediment Deposits Drainage Patterns Remarks: No indicators observed CONCLUSIONS No Hydric Soils No Hydrophytes Prevalent No Wetland? No Wetland Hydrology Remarks:

Date:

Field Personnel: D. Roberts & B. Anderson

Review:

Project Title: NEIP Wetlands
Location: AOC2,Bums Property, Guilderland, NY

Do Normal Circumstances exist on site? Yes
Is the site significantly disturbed? No
Is the area a potential problem area? No

REMARKS: Upper edge of red maple swamp.

| VEGETATION                                              |                           |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------|---------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dominant Plants by Stratum                              | Percent cover             | Dominant<br>Species  | NWI<br>Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| TREES:                                                  |                           | 3 T                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Acer rubrum, Red maple                                  | 20                        | Yes                  | FAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| dominance ratio 50%= 10 20%= 4 total=                   | 20                        | in the second second |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                         | 20                        |                      | la constant de la con |
| SAPLINGS (<5" dbh, >20"):  Acer rubrum, Red maple       | 20                        | Yes                  | FAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Ulmus rubra, Slippery elm                               | 5                         | Yes                  | FAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| - Onnas Tubra, Onpporty Citi                            |                           | 103                  | 170                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| dominance ratio 50%= 12.5 20%= 5 total=                 | 25                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SHRUBS (3-20'):                                         |                           |                      | y.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                         |                           |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Cornus foemina, Stiff dogwood                           | 50                        | Yes                  | FAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Viburnum recognitum, Northern arrow-wood                | 5                         | No                   | FACW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 50%-07.5                                                |                           | W 1                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| dominance ratio 50%= 27.5 20%= 11 total=                | 55                        |                      | 44 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| HERBS AND SEEDLINGS:                                    |                           |                      | 9 1 14 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Viburnum recognitum, Northern arrow-wood                | 2                         | No                   | FACW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Aster dumosus, Bush aster                               | 10                        | Yes                  | FAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Solidago rugosa, Wrinkled goldenrod                     | 10                        | Yes                  | FAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Onoclea sensiblis. Sensitive fem                        | 5                         | Yes                  | FACW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Geum laciniatum, Rough avens                            | 5                         | Yes                  | FAC+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                         |                           | terit                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                         |                           |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| dominance ratio 50%= 16 20%= 6.4 Total=                 | 32                        |                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tally of Dominants: OBL= FACW= 1 FAC*= 1 FAC= 6 FAC*= F | ACU= UPL=                 | SUM= 8               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| [OBL+FACW+FAC*+FAC] X 100 = 100%<br>SUM                 | Area Disturb<br>Describe: | ed? No               | · .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Sample Location: \_ AOC2, Flag O3/O4, Wetland SOIL Horizon Munsell Color (wet) **USDA** Texture (wet) Remarks Depth Matrix: 10/YR4/2 0-6" Sandy loam ДÞ Mottles: Grav matrix with prominent or-6-12" ВА Matrix: 2.5Y6/2 Fine sandy loam ange mottles Mottles:7.5YR5/8 Matrix: Mottles: Matrix: Mottles: Soil Taxonomy: Aeric Ochraqualfs Permeability: Moderately slow Drainage Class: Somewhat poorty dr. Field observations confirm map type? No-Series and Phase: Rhinebeck Organic soil **Reducing Conditions NTCHS** list Sulfidic Odor Local Hydric Soil List Histic Epipedon Gleyed or low-chroma colors Aquic Moisture Regime Dark Vertical Streaking of Subsurface Horizons (sandy soils) Other (explain) High Organic Content in Surface Horizon (sandy soils) Remarks: Wetland soils to the west are predominantly Madalin series, as mapped. However, observed profile at base of upland slope (Nunda soils), is characteristic of the somewhat poorly drained Rhinebeck soils **HYDROLOGY** 

|                                                                                                                            | n for Extended Period During the Growing Season ated:                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PRIMARY INDICATORS:Inundation (Depth)Saturation in Upper 12" (Depth)WatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  X Oxidized Root Channels in Upper 12"  Water-stained Leaves  Local Soil Survey  X FAC Neutral Test  Other (Buttressed trees, Stooling) |
| Remarks:                                                                                                                   |                                                                                                                                                                                   |
|                                                                                                                            |                                                                                                                                                                                   |
| CONC                                                                                                                       | LUSIONS                                                                                                                                                                           |
| Yes Hydrophytes Prevalent Yes Wetland Hydrology                                                                            | Yes Hydric Soils Yes Wetland?                                                                                                                                                     |
| Remarks:                                                                                                                   |                                                                                                                                                                                   |

Date:

Field Personnel: D. Roberts & B. Anderson

Review:

| The NEID Wetlands                                                           | Date: 10/21/98         |  |
|-----------------------------------------------------------------------------|------------------------|--|
| Project Title: NEIP Wetlands Location: AOC2,Burns Property, Guilderland, NY | County: Albany         |  |
|                                                                             | Transect: 2            |  |
| Do Normal Circumstances exist on site? Yes                                  | Flag #: 037            |  |
| Is the site significantly disturbed? No                                     | WETLAND OR UPLAND? WET |  |
| Is the area a potential problem area? No                                    |                        |  |
| REMARKS: Edge of wet meadow at the west end of pond.                        |                        |  |

| VEGETATION                                          |       | <u> </u>         |                     | <b>3</b> 43 - 78           |
|-----------------------------------------------------|-------|------------------|---------------------|----------------------------|
| Dominant Plants by Stratum                          |       | Percent<br>cover | Dominant<br>Species | NWI<br>Status              |
| REES: None                                          |       |                  |                     |                            |
| REES. Notic                                         |       |                  |                     |                            |
|                                                     |       |                  |                     |                            |
|                                                     |       |                  |                     |                            |
|                                                     |       |                  |                     | <u> </u>                   |
| dominance ratio 50%= 20%= tota                      | 3 =   |                  |                     |                            |
| SAPLINGS (<5" dbh, >20"): None                      |       |                  |                     | 32 S                       |
| SAF Elitoo ( 10 Carry - 1)                          |       |                  |                     |                            |
|                                                     |       |                  |                     |                            |
|                                                     | · .   |                  |                     |                            |
|                                                     |       |                  |                     |                            |
| dominance ratio 50%= 20%= tot                       | al=   |                  |                     |                            |
| SHRUBS (3-20'): None                                |       |                  | 4 to 15 to          | 97.4                       |
| 5111020 (0 20 p. 100)                               |       |                  |                     |                            |
|                                                     |       |                  |                     |                            |
|                                                     |       |                  |                     |                            |
|                                                     |       |                  |                     |                            |
| dominance ratio 50%= 20%= to                        | tal=  |                  | <del> </del>        |                            |
| HERBS AND SEEDLINGS:                                |       |                  |                     |                            |
|                                                     |       |                  |                     | O.B.                       |
| Scirpus atrovirens, Green bulrush                   |       | 25               | Yes                 | OBL                        |
| Dactylis glomerata, Orchard grass                   |       | 30               | Yes                 | FACL                       |
| Phleum pratense, Timothy                            |       | 30               | Yes                 | FACI                       |
| Galium trifidum(?), Bedstraw                        |       | 5                | Yes                 | FACV                       |
| Daucus carota, Queen Anne's Lace                    |       | 1                | Yes                 | UPL                        |
| Trifolium pratense, Red clover                      |       | 1                | Yes                 | FAC                        |
|                                                     |       |                  |                     |                            |
| dominance ratio 50%= 46 20%= 18.4 T                 | otal= | 92               |                     | <u> </u>                   |
| Tally of Dominants: OBL= 1 FACW= 1 FAC*= FAC= 0 FAC | = FAC | CU= 3 UPL=1      | SUM= 6              |                            |
| [OBL+FACW+FAC*+FAC] X 100 =2/6 = 33%                |       | Area Distur      | pegr tes.           |                            |
| SUM                                                 |       | Describe: E      | dge of man-made     | pond. Mov<br>tinued on oth |

Sample Location: \_\_\_AOC2, Flag O37, Wetland

|                                      |                 |                                                     | SOIL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                |
|--------------------------------------|-----------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Depth                                | Horizon         | Munsell Color (wet)                                 | USDA Texture (wet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Remarks                                        |
| 0-6"                                 | Ар              | Matrix: 10/YR4/1<br>Mottles:                        | Sandy loam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                |
| 6-12"                                | BA              | Matrix: 2.5Y6/2<br>Mottles:7.5YR5/8                 | Fine sandy loam                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Gray matrix with prominent or-<br>ange mottles |
| e Mag <b>e</b> ro e e<br>e e e e e e | No. 10 To 15 St | Matrix:<br>Mottles:                                 | The street of th |                                                |
| Ħ                                    | e in the        | Matrix:<br>Mottles:                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |
| Soil Taxonomy: Aeric Ochraqualfs     |                 | ric Ochraqualfs                                     | Permeability: Moderately slow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Drainage Class: Somewhat poorly dr.            |
| Series a                             | nd Phase: F     | thinebeck                                           | Field observations confirm n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                |
| Ог                                   | ganic soil      |                                                     | Reducing Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NTCHS list                                     |
| His                                  | stic Epipedo    | n                                                   | Sulfidic Odor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Local Hydric Soil List                         |
| X Gle                                | yed or low-     | chroma colors                                       | Aquic Moisture Regime                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                |
| Da                                   | rk Vertical S   | Streaking of Subsurface I                           | Horizons (sandy soils)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Other (explain)                                |
| Hiç                                  | gh Organic (    | Content in Surface Horizo                           | on (sandy soils)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                |
| Remarks<br>upper po                  | s:Mapped a      | s upland Burdett series.<br>ile matches Rhinebeck s | Low chroma matrix and bright mo eries.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ttles indicate hydric soils, and               |

| HYDROLOGY Recorded Data Indicating Inundation or Saturation for Extended Period During the Growing Season Source: Dated: |                                                      |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--|--|--|--|
|                                                                                                                          |                                                      |  |  |  |  |
| Remarks: Evidence of poor drainage around edge of madisturbed vegetation (mowed).                                        | an-made pond. FAC neutral test not applicable due to |  |  |  |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  | CONCLUSIONS                                     | S At day to the transfer shake the                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------|
| No* Hydrophytes Yes Wetland Hy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |                                                 | Hydric Soils Wetland?                                                      |
| Remarks: * Obligate on the extent of obligate of the extent of obligate of the extent of obligate of the extent of | e wetlands species pre<br>igate species evidence | sent in mowed field, w<br>of topography to supp | with hydric soils present. Wetland boundary based port wetland conditions. |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ). Roberts, B. Anderson                          | ı & P. Muessig                                  |                                                                            |
| Review: DAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | drest                                            | Date:                                           | 12/2/98                                                                    |

| ? UPL    |
|----------|
| equently |
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| VEGETATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Dominant Plants by Stratum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Percent<br>cover | Dominant<br>Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NWI<br>Status |
| TREES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
| Acer rubrum, Red maple                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FAC           |
| Pinus backsiana, Jack pine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10               | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FACU          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A Jan & Prince   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
| dominance ratio 50%= 6 20%= 2.4 total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | . 12             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
| SAPLINGS (<5" dbh, >20"): None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
| and the second of the second o |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
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| dominance ratio 50%= 20%= total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | :                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u>      |
| SHRUBS (3-20'):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
| Rhamnus frangula, Glossy buckthorn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10               | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FAC           |
| Comus foemina, Stiff dogwood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FAC           |
| Viburnum recognitum, Northern arrow-wood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FACW          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | en komunitari da jarah da jara |               |
| dominance ratio 50%= 6 20%= 2.4 total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 12               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
| HERBS AND SEEDLINGS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
| The state of the s |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
| Dactylis glomerata, Orchard grass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 50               | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FACU          |
| Other grasses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10               | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -             |
| Rubus flagellaris, Northern dewberry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5                | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | UPL           |
| Ulmus rubra, Slippery elm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FAC           |
| Prunella vulgaris, Heal-all                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FACU          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 75.7.         |
| dominance ratio 50%= 33.5 20%= 13.4 Total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 67               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |
| Tally of Dominants: OBL= FACW= FAC*= FAC= 1 FAC= FAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | J= 2 UPL=        | SUM= 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               |
| [OBL+FACW+FAC+FAC] X 100 = 1 or 2 / 4 = 25 - 50%<br>SUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  | bed? Yes.<br>Mowed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |

Sample Location: AOC2, Flag O37, Upland

|          | e ta let le   |                                    | SOIL                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------|---------------|------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Depth    | Horizon       | Munsell Color (wet)                | USDA Texture (wet)               | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 0-10"    | Ар            | Matrix: 10/YR4/2<br>Mottles:       | Sandy loam                       | Fibrous roots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 10-14"   | 2E/B          | Matrix: 2.5Y5/4<br>Mottles:10YR5/8 | Sandy loam                       | Stony @ 10 inches. Common faint mottles. Small-medium cobbles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>H</b> |               | Matrix:<br>Mottles:                |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| P        |               | Matrix:<br>Mottles:                |                                  | ing server and the server of t |
| Soil Tax | onomy: Glo    | ssaquic Hapludalfs                 | Permeability: Moderate           | Drainage Class: mod. well-drained                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Series a | nd Phase: N   | lunda Silt Loam                    | Field observations cor           | firm map type? Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| On       | ganic soil    |                                    | Reducing Conditions              | NTCHS list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| His      | stic Epipedo  | n                                  | Sulfidic Odor                    | Local Hydric Soil List                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gle      | eyed or low-  | chroma colors                      | Aquic Moisture Regime            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Da       | rk Vertical S | Streaking of Subsurface I          | Horizons (sandy soils)           | Other (explain)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Hiç      | gh Organic (  | Content in Surface Horizo          | on (sandy soits)                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Remarks  | s: Mapped a   | as upland Nunda series.            | No redoxomorphic features in upp | per 12 inches.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| HYDR                                                                                                                       | OLOGY                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recorded Data Indicating Inundation or Saturation Source:                                                                  | n for Extended Period During the Growing Season ated:                                                                                                                        |
| PRIMARY INDICATORS:Inundation (Depth)Saturation in Upper 12" (Depth)WatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  Oxidized Root Channels in Upper 12"  Water-stained Leaves  Local Soil Survey  FAC Neutral Test Other (Buttressed trees, Stooling) |
| Remarks: No indicators observed                                                                                            |                                                                                                                                                                              |

| CONC                                                  | CLUSIONS                                           |
|-------------------------------------------------------|----------------------------------------------------|
| No* Hydrophytes Prevalent Yes Wetland Hydrology       | Yes_Hydric Soils Yes_Wetland?                      |
| Remarks: * Faculative wetlands species present in her | rb layer of mowed field, with hydric soils absent. |
| Field Personnel: D. Roberts, B. Anderson & P. Muess   | sig                                                |
| Review: DA Roberts                                    | Date:                                              |

| Project Title: NEIP Wetlands                  |          |   | Date: 10/27/9 | 8                                     |
|-----------------------------------------------|----------|---|---------------|---------------------------------------|
| Location: AOC2,Burns Property, Guilderland, N | <u> </u> |   | County: Albar | у                                     |
| Do Normal Circumstances exist on site? Yes    |          |   | Transect: 2   |                                       |
| Is the site significantly disturbed? No       | •        |   | Flag #: 064   |                                       |
| Is the area a potential problem area? No      |          | ٠ | WETLAND OF    | R UPLAND? WET                         |
| REMARKS:                                      |          |   |               | · · · · · · · · · · · · · · · · · · · |

| VEGETATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | *.*                       |                     |                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------|---------------------------------------|
| Dominant Plants by Stratum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Percent<br>cover          | Dominant<br>Species | NWI<br>Status                         |
| TREES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |                     |                                       |
| Fraxinus pennsylvanica, Green ash                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10                        | Yes                 | FACW                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                     | · · · · · · · · · · · · · · · · · · · |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                     |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                     |                                       |
| dominance ratio 50%= 5 20%= 2 total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10                        |                     |                                       |
| SAPLINGS (<5" dbh, >20"):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           | i ter               |                                       |
| Fraxinus pennsylvanica, Green ash                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6                         | Yes                 | FACW                                  |
| Ulmus rubra, Slippery elm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                         | Yes                 | FAC                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | × 4.                      |                     |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                     |                                       |
| dominance ratio 50%= 4.5 20%= 1.8 total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9                         |                     |                                       |
| SHRUBS (3-20'):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                     |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                     |                                       |
| Cornus foemina, Stiff dogwood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20                        | Yes                 | FAC                                   |
| Viburnum recognitum, Northern arrow-wood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5                         | Yes                 | FACW                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                     |                                       |
| dominance ratio 50%= 12.5 20%= 5 total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25                        |                     |                                       |
| HERBS AND SEEDLINGS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |                     |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | enda en dam se <u>t</u>   | jingana daji ki k   |                                       |
| The Market Control of the Control of |                           | Angle Song Colland  |                                       |
| Comus foemina, Stiff dogwood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10                        | Yes                 | FAC                                   |
| Rhamnus frangula, Glossy buckthom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5                         | No                  | FAC                                   |
| Cornus stolonifera, Red osier dogwood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5                         | No                  | FACW                                  |
| Unknown grass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10                        | Yes                 | -                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | in the same               |                     |                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |                     |                                       |
| dominance ratio 50%= 15 20%= 6 Total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30                        |                     |                                       |
| Tally of Dominants: OBL= FACW= 3 FAC*= FAC= 3 FAC= FA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CU= UPL=                  | SUM= 7              |                                       |
| [OBL+FACW+FAC+FAC+X 100 = 6 or 7 / 7 = 86 -100%<br>SUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Area Disturb<br>Describe: | ed? No              | · .                                   |

AOC2, Flag O64, Wetland Sample Location: SOIL Remarks **USDA Texture (wet)** Munsell Color (wet) Depth Horizon Matrix: 10/YR4/2 Sandy loam 0-6" Αp Mottles: Mottles many, fine distinct Fine sandy loam Matrix: 10YR5/1 6-12" Ba Mottles:7.5YR5/6 Matrix: Mottles: Matrix: Mottles: Drainage Class: Poorly drained Permeability: Moderate to moder-Soil Taxonomy: Aeric Haplaquepts ately slow Field observations confirm map type? Yes Series and Phase: Raynham **NTCHS list Reducing Conditions** Organic soil Local Hydric Soil List Sulfidic Odor Histic Epipedon Aquic Moisture Regime Gleyed or low-chroma colors Other (explain) Dark Vertical Streaking of Subsurface Horizons (sandy soils) High Organic Content in Surface Horizon (sandy soils) Remarks: Soils mapping indicates a long finger of Raynham soils that corresponds approximately to the location of this scrub/shrub wetland. **HYDROLOGY** Recorded Data Indicating Inundation or Saturation for Extended Period During the Growing Season Dated: Source: SECONDARY INDICATORS (2 or more required) **PRIMARY INDICATORS:** Oxidized Root Channels in Upper 12" Inundation (Depth Water-stained Leaves Saturation in Upper 12" (Depth Local Soil Survey Watermarks **FAC Neutral Test** Driftlines Other (Buttressed trees, Stooling) Sediment Deposits Drainage Patterns Remarks:

|                                                                                                                                                                                            | and the second second                          |                                 | 74                        |                          |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------|---------------------------|--------------------------|---------|
|                                                                                                                                                                                            | CONCLUSIONS                                    |                                 |                           |                          |         |
| Yes_Hydrophytes Prevalent Yes_Wetland Hydrology                                                                                                                                            |                                                | ydric Soils<br>/etland?         |                           |                          |         |
| Remarks: This area of forested wetland, with a property, from the edge of the maintained lawn was based on the presence of FACW species it tartarian honeysuckle in the upland, along with | and fields to the nor<br>ncluding Sensitive fe | them property<br>em and arrow v | / line.   Th<br>wood in t | ne wetland b             | oundary |
| Field Personnel: D. Roberts & K. Shutty                                                                                                                                                    |                                                |                                 |                           |                          |         |
| Review: DA Delegt                                                                                                                                                                          | Date: /                                        |                                 |                           | and a last of the second |         |

| i Deniant Litter IVEIC VVCIGIUS            | Date: 10/27/98 County: Albany |
|--------------------------------------------|-------------------------------|
| Do Normal Circumstances exist on site? Yes | Transect: 2                   |
| Is the site significantly disturbed? No    | Flag #: 064                   |
| Is the area a potential problem area? No   | WETLAND OR UPLAND? UPL        |
| REMARKS: .                                 |                               |

| VEGETATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          | 841 ×               |                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|-----------------------------------|
| Dominant Plants by Stratum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Percent<br>cover         | Dominant<br>Species | NWI<br>Status                     |
| REES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                     |                                   |
| Pinus strobus, White pine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10                       | Yes                 | FACU                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                     |                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                     | <del> </del>                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                     |                                   |
| dominance ratio 50%= 5 20%= 2 total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10                       |                     |                                   |
| SAPLINGS (<5" dbh, >20'):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |                     | <b>545)</b>                       |
| Fraxinus pennsylvanica, Green ash                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5                        | Yes                 | FACW                              |
| Ulmus rubra, Slippery elm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5                        | Yes                 | FAC                               |
| Pinus strobus, White pine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                        | No                  | FACU                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                     |                                   |
| dominance ratio 50%= 5.5 20%= 2.2 total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11                       |                     |                                   |
| SHRUBS (3-20'): None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          | 200                 |                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                     |                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                     | · · · · · · · · · · · · · · · · · |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u></u>                  |                     |                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                     |                                   |
| dominance ratio 50%= 20%= total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <u> </u>                 |                     |                                   |
| HERBS AND SEEDLINGS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u> </u>                 |                     |                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                     |                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                     | EAC                               |
| Cornus foemina, Stiff dogwood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5                        | Yes                 | FAC                               |
| Gallium sp., Bedstraw                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5                        | Yes                 | •                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                     |                                   |
| the second of th |                          |                     |                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                     |                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                     |                                   |
| dominance ratio 50%= 15 20%= 6 Total=                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30                       |                     |                                   |
| Tally of Dominants: OBL= FACW= 1 FAC*= FAC= 2 FAC= FAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ACU= 1 UPL=              | SUM= 5              |                                   |
| [OBL+FACW+FAC+FAC] X 100 = 3 or 4 / 5 = 60 - 80%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Area Distur              | bed? No             |                                   |
| Tally of Dominants: OBL= FACW=1 FAC = FAC-2 FAC-17  [OBL+FACW+FAC*+FAC] X 100 = 3 or 4 / 5 = 60 - 80%  SUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Area Distur<br>Describe: | bed? No             | nued on                           |

Sample Location: AOC2, Flag O64, Upland SOIL Remarks **USDA Texture (wet) Munsell Color (wet)** Horizon Depth Silt loam Matrix: 10/YR4/3 0-6" ДD Mottles: No mottles Fine sandy loam Matrix: 10YR5/4 В 6-12" Mottles: Matrix: Mottles: Matrix: Mottles: Drainage Class: Somewhat poorty Soil Taxonomy: Aeric Ochraqualfs Permeability: Moderate Field observations confirm map type? Yes Series and Phase: Burdett Silt Loam? **NTCHS** list **Reducing Conditions** Organic soil Local Hydric Soil List Sulfidic Odor Histic Epipedon Gleyed or low-chroma colors Aquic Moisture Regime Dark Vertical Streaking of Subsurface Horizons (sandy soils) Other (explain) High Organic Content in Surface Horizon (sandy soils) Remarks: Soils mapping indicates a long finger of Raynham soils that corresponds approximately to the location of this scrub/shrub wetland surrounded by Burdett Soil in the upland. No low chroma colors or mottles within 12 inches.

| HYDRO                                                                                                                      | DLOGY                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recorded Data Indicating Inundation or Saturation Source: Data                                                             | for Extended Period During the Growing Season ed:                                                                                                                             |
| PRIMARY INDICATORS:Inundation (Depth)Saturation in Upper 12" (Depth)WatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  Oxidized Root Channels in Upper 12"  Water-stained Leaves  Local Soil Survey  FAC Neutral Test  Other (Buttressed trees, Stooling) |
| Remarks:                                                                                                                   |                                                                                                                                                                               |
|                                                                                                                            |                                                                                                                                                                               |

| CON                                                                                                                                | CLUSIONS                                                   |                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------|
| Yes Hydrophytes Prevalent No Wetland Hydrology                                                                                     | No Hydric Soils No Wetland?                                |                                                                      |
| Domester The wetland boundary was based on the N                                                                                   | resence of FACW species it                                 | ncluding sensitive tem and arrow                                     |
| Remarks: The wetland boundary was based on the property wood in the wetland and tartarian honeysuckle, white chroma, mottled soil. | resence of FACW species in<br>pine and cherry in the uplar | ncluding sensitive fem and arrow<br>nd, along with the depth to low- |
| wood in the wetland and tartarian honeysuckle, white                                                                               | resence of FACW species in pine and cherry in the uplar    | ncluding sensitive fem and arrow<br>nd, along with the depth to low- |

| Project Title: NEIP Wetlands                      | Date: 10/27/98         |
|---------------------------------------------------|------------------------|
| Location: AOC2,Burns Property, Guilderland, NY    | County: Albany         |
| Do Normal Circumstances exist on site? Yes        | Transect: 1            |
| Is the site significantly disturbed? No           | Flag #: Q1             |
| Is the area a potential problem area? No          | WETLAND OR UPLAND? WET |
| REMARKS: Edge of large hardwood forested wetland. |                        |

| VEGETATION                                           |                          | <u> </u>            | <u> </u>      |
|------------------------------------------------------|--------------------------|---------------------|---------------|
| Dominant Plants by Stratum                           | Percent<br>cover         | Dominant<br>Species | NWI<br>Status |
| TREES:                                               |                          |                     |               |
| Acer rubrum, Red maple                               | 40                       | Yes                 | FAC           |
| Quercus bicolor, Swamp white oak                     | 10                       | Yes                 | FACW          |
|                                                      |                          |                     |               |
|                                                      |                          |                     |               |
| dominance ratio 50%= 25 20%= 10 total=               | 50                       |                     |               |
| SAPLINGS (<5" dbh, >20'):                            |                          |                     | _             |
| Fraxinus pennsylvanica, Green ash                    | 5                        | Yes                 | FACW          |
| Acer rubrum, Red maple                               | 5                        | Yes                 | FAC           |
| Quercus bicolor, Swamp white oak                     | 10                       | Yes                 | FACW          |
|                                                      |                          | 1 1/2               |               |
| dominance ratio 50%= 10 20%= 4 total=                | 20                       |                     | 1             |
| SHRUBS (3-20'):                                      |                          |                     |               |
|                                                      |                          |                     |               |
| Comus foemina, Stiff dogwood                         | 5                        | No                  | FAC           |
| Vaccinium corymbosum, High bush blueberry            | 40                       | Yes                 | FACW          |
|                                                      |                          |                     |               |
| dominance ratio 50%= 22.5 20%= 9 total=              | 45                       | 1                   |               |
| HERBS AND SEEDLINGS:                                 | e na sagar daken na seba |                     | LE TENER      |
|                                                      |                          |                     |               |
|                                                      |                          |                     |               |
| Carex stricta, Uptight sedge                         | 10                       | Yes                 | OBL           |
| Carex lurida, Shallow sedge                          | 1                        | No                  | OBL           |
| Quercus bicolor, Swamp white oak                     | 1                        | No                  | FACW          |
|                                                      | Mill 1 4 31 12 11        |                     |               |
|                                                      |                          |                     |               |
|                                                      |                          |                     |               |
| dominance ratio 50%= 24 20%= 2.4 Total=              | 12                       |                     |               |
| Tally of Dominants: OBL= 1 FACW= 4 FAC*= FAC= 2 FAC= | FACU= UPL=               | SUM= 7              | <u> </u>      |
| [OBL+FACW+FAC+FAC] X 100 = 7 / 7 = 100%<br>SUM       | Area Distur<br>Describe: |                     |               |

Sample Location: AOC2, Flag Q1, Wetland

| SOIL SOIL                                                                    |                                          |                                     |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|------------------------------------------------------------------------------|------------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Depth                                                                        | Horizon                                  | Munsell Color (wet)                 | USDA Texture (wet)                   | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| 0-6"                                                                         | Ар                                       | Matrix: 10/YR2/1<br>Mottles:        | Silt loam                            | High Organic content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 6-12"                                                                        | Btg                                      | Matrix: 10YR5/1<br>Mottles:7.5YR5/6 | Silty clay loam                      | Mottles many, Prominent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| 79                                                                           |                                          | Matrix:<br>Mottles:                 |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| " Matrix:<br>Mottles:                                                        |                                          |                                     |                                      | energia de la companya del companya del companya de la companya de |  |
| Soil Tax                                                                     | onomy: Mol                               | lic Ochraqualfs                     | Permeability: Moderately slow        | Drainage Class: Poorly drained                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Series and Phase: Madalin silt loam Field observations confirm map type? Yes |                                          |                                     |                                      | nfirm map type? Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Organic soil                                                                 |                                          |                                     | Reducing Conditions                  | NTCHS list                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| Histic Epipedon                                                              |                                          |                                     | Sulfidic Odor Local Hydric Soil List |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| X Gleyed or low-chroma colors                                                |                                          |                                     | Aquic Moisture Regime                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Da                                                                           | ırk Vertical S                           | Streaking of Subsurface I           | Horizons (sandy soils)               | Other (explain)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Hi                                                                           | gh Organic (                             | Content in Surface Horize           | on (sandy soils)                     | a the Markey will be a final for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|                                                                              | s: Soils ma <sub>l</sub><br>crub/shrub v |                                     | ger of Raynham soils that correspo   | onds approximately to the location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |

| HYDRO                                                                                                                      | DLOGY                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recorded Data Indicating Inundation or Saturation Source:                                                                  | for Extended Period During the Growing Season ted:                                                                                                                                                        |
| PRIMARY INDICATORS:Inundation (Depth)Saturation in Upper 12" (Depth)VatermarksDriftlinesSediment DepositsDrainage Patterns | SECONDARY INDICATORS (2 or more required)  X Oxidized Root Channels in Upper 12"  X Water-stained Leaves  X Local Soil Survey  X FAC Neutral Test  X Other (Buttressed trees, Stooling)  Buttressed trees |
| Remarks:                                                                                                                   |                                                                                                                                                                                                           |

| CONCL                                              | USIONS |           |  |
|----------------------------------------------------|--------|-----------|--|
| Yes Hydrophytes Prevalent Yes Wetland Hydrology    |        | vvelianu? |  |
| Remarks: Hardwood swamp with hydric Madalin soils. |        |           |  |
| Field Personnel: D. Roberts & K. Shutty            |        |           |  |
| Review: DA Antuto                                  | Date:  | 12/2/98   |  |

| Project Title: NEIP Wetlands                      | Date: 10/27/98         |
|---------------------------------------------------|------------------------|
| Location: AOC2,Burns Property, Guilderland, NY    | County: Albany         |
| Do Normal Circumstances exist on site? Yes        | Transect: 1            |
| Is the site significantly disturbed? No           | Flag #: Q1             |
| Is the area a potential problem area? No          | WETLAND OR UPLAND? UPL |
| REMARKS: Upland island in large forested wetland. |                        |

| VEGETATION                                    | 4 4<br>                   | ··.                 | e e e         |
|-----------------------------------------------|---------------------------|---------------------|---------------|
| Dominant Plants by Stratum                    | Percent<br>cover          | Dominant<br>Species | NWI<br>Status |
| TREES:                                        |                           |                     |               |
| Fagus grandifolia, American beech             | 20                        | Yes                 | FACU          |
| Tsuga canadensis, Eastern hemlock             | 10                        | Yes                 | FACU          |
|                                               |                           |                     |               |
|                                               |                           |                     |               |
| dominance ratio 50%= 15 20%= 6 total=         | 30                        |                     | Ä             |
| SAPLINGS (<5" dbh, >20"):                     |                           |                     |               |
| Fagus grandifolia, American beech             | 50                        | Yes                 | FACU          |
|                                               |                           |                     |               |
|                                               |                           |                     |               |
|                                               |                           |                     |               |
| dominance ratio 50%= 25 20%= 10 total=        | 50                        |                     |               |
| SHRUBS (3-20'):                               |                           |                     |               |
|                                               |                           |                     |               |
| Fagus grandifolia, American beech             | 1                         | Yes                 | FACU          |
|                                               |                           |                     |               |
|                                               |                           | 2.1                 |               |
| dominance ratio 50%= 0.5 20%= 0.2 total=      | 1                         |                     |               |
| HERBS AND SEEDLINGS:                          |                           |                     |               |
|                                               |                           |                     |               |
|                                               |                           |                     |               |
| Fagus grandifolia, American beech             | 1 ,                       | Yes                 | FACU          |
|                                               |                           |                     |               |
|                                               |                           |                     | magya is      |
|                                               |                           |                     |               |
|                                               |                           |                     |               |
|                                               |                           |                     |               |
| dominance ratio 50%= 0.5 20%= 0.2 Total=      | 1                         |                     |               |
| Tally of Dominants: OBL= FACW= FAC+= FAC= FAC | U= 5 UPL=                 | SUM= 5              |               |
| [OBL+FACW+FAC+FAC] X 100 = 0%<br>SUM          | Area Disturi<br>Describe: | oed? No             |               |

Sample Location: AOC2, Flag Q1, Upland Depth Horizon Munsell Color (wet) **USDA Texture (wet)** Remarks 0-4" Αp Matrix: 10/YR2/1 Silt loam Mottles: none 4-12" В Matrix: 10YR5/4 Silty clay loam Mottles: faint Matrix: Mottles: Matrix: Mottles: Soil Taxonomy: Aeric Ochraqualfs Permeability: Moderate Drainage Class: Somewhat poorly Series and Phase: Burdett Silt Loam? Field observations confirm map type? No Organic soil **Reducing Conditions NTCHS** list Histic Epipedon Sulfidic Odor Local Hydric Soil List Gleyed or low-chroma colors Aquic Moisture Regime Dark Vertical Streaking of Subsurface Horizons (sandy soils) Other (explain) High Organic Content in Surface Horizon (sandy soils) Remarks: Area mapped as Madalin series soils which are hydric, and correspond to adjacent wetland. No hydric indicators observed. Upper soil profile resembles Burdett series. **HYDROLOGY** Recorded Data Indicating Inundation or Saturation for Extended Period During the Growing Season Source: Dated: PRIMARY INDICATORS: SECONDARY INDICATORS (2 or more required) Inundation (Depth Oxidized Root Channels in Upper 12" Saturation in Upper 12" (Depth Water-stained Leaves Watermarks Local Soil Survey **Driftlines FAC Neutral Test Sediment Deposits** Other (Buttressed trees, Stooling) Drainage Patterns Remarks: No indicators observed

|                                               |         | CONCLUSIONS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |
|-----------------------------------------------|---------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| No Hydrophytes Prevalent No Wetland Hydrology | 4<br>*} |             | dric Soils<br>etland?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |
| Remarks:                                      |         |             | And the second of the second o |              |
| Field Personnel: D. Roberts & K.              | Shutty  |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |
| Review: DA Golden                             |         | Date:       | 12/2/98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |
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Appendix C

Photographs



Figure C-1. SADVA AOC1, Wetland A from southeast corner of site, looking north, September 24, 1998.



Figure C-2. SADVA AOC1, View north of Wetland A, from Wetland Flag A42, September 24, 1998.



Figure C-3. SADVA, AOC1, South pond from Wetland Flag A42, September 24, 1998.

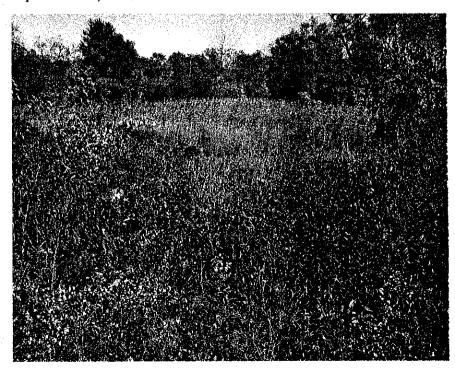


Figure C-4. SADVA AOC1, From upland at A34, across cattail marsh of Wetland A, September 24, 1998.



Figure C-5. SADVA AOC1, Northern end of Wetland A in the background near Wetland Flag A9.

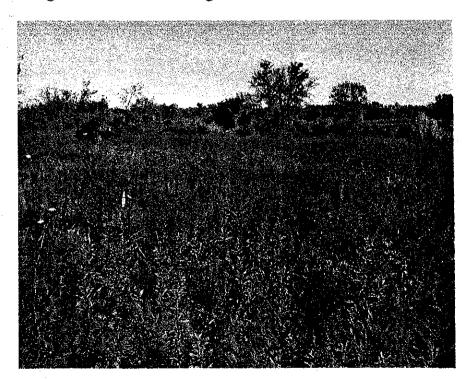


Figure C-6. SADVA AOC1, Wetland D foreground, and upland background, September 24, 1998.



Figure C-7. SADVA AOC1, Wetland C (to right) and adjacent upland (left), September 24, 1998.



Figure C-8. SADVA AOC1, Wetland B (center of photo) from flag B1 looking north, September 24, 1998.



Figure C-9. SADVA AOC1, Near Wetland flag A64, looking northeast, September 24, 1998.



Figure C-10. SADVA, AOC1W, at Flag J1 (foreground) with Flag J21 in the background, October 14, 1998.



Figure C-11. SADVA, AOC1, Wetland at flag K43, and upland (piles of fill) in background, October 16, 1998.



Figure C-12. SADVA, AOC2, Upland at flag O37, adjacent to pasture, October 21, 1998.



Figure C-13. SADVA, AOC2, Wetland at flag O37, swale around pond in pasture, October 21, 1998.



Figure C-14. SADVA, AOC2, Wetland at flag O64, October 21, 1998.



Figure C-15. SADVA, AOC2, Upland at flag O64, October 21, 1998.



Figure C-16. SADVA, AOC2, Wetland at flag Q1, October 27, 1998.



Figure C-17. SADVA, AOC2, Upland at flag Q1, October 27, 1998.



Figure C-18. SADVA AOC4, Wetland at Flag H64, September 25, 1998.

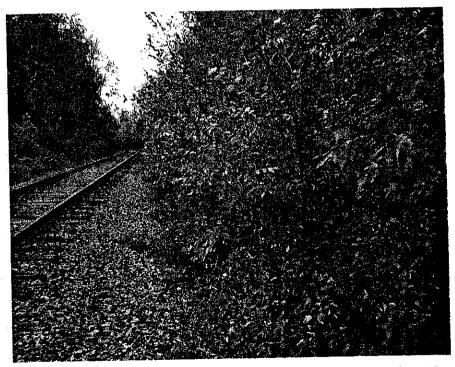


Figure C-19. SADVA AOC4, Upland at Flag H64, September 25, 1998.



Figure C-20. SADVA AOC4, Black Creek near Route 201, September 25, 1998.



Figure C-21. SADVA, AOC4, Wetland Flag H69, September 24, 1998.

# Appendix D Agency Correspondence

#### **New York State Department of Environmental Conservation**

Division of Fish, Wildlife & Marine Resources

Wildlife Resources Center - New York Natural Heritage Program 700 Troy-Schenectady Road, Latham, New York 12110-2400

Phone: (518) 783-3932 FAX: (518) 783-3916



October 30, 1998

Deborah A. Roberts Roberts Environmental Consulting, Inc. 273 Haviland Road Queensbury, NY 12804

Dear Ms. Roberts:

We have reviewed the New York Natural Heritage Program files with respect to your recent request for biological information concerning the Defenses Environmental Restoration Program, Northeastern Industrial Park, site as indicated on your enclosed map, located in the Town of Guilderland, Albany County, New York State.

Enclosed is a computer printout covering the area you requested to be reviewed by our staff. The information contained in this report is considered <u>sensitive</u> and may not be released to the public without permission from the New York Natural Heritage Program.

Our files are continually growing as new habitats and occurrences of rare species and communities are discovered. In most cases, site-specific or comprehensive surveys for plant and animal occurrences have not been conducted. For these reasons, we can only provide data which have been assembled from our files. We cannot provide a definitive statement on the presence or absence of species, habitats or natural communities. This information should <u>not</u> be substituted for on-site surveys that may be required for environmental assessment.

This response applies only to known occurrences of rare animals and/or significant wildlife habitats. Please contact the appropriate NYS <u>DEC</u> Regional Office, Division of Environmental Permits, at the address <u>enclosed</u> for information regarding any regulated areas or permits that may be required (e.g., <u>regulated wetlands</u>) under State Law.

If this proposed project is still active one year from now we recommend that you contact us again so that we may update this response. Kindly address your requests to the above address,

Sincerely,

Teresa Mackey, Information Services

NY Natural Heritage Program

Encs

cc: Reg. 4, Wildlife Mgr.

Reg. 4, Fisheries Mgr.

Prepared 28 OCT 1998 by NY Natural Heritage Program, NYS DEC, Latham, New York.

This report contains SENSITIVE information which should be treated in a sensitive manner -- Please see cover letter Records with a PRECISION value of "S" are known to be in a location which may be impacted by the proposed action. Records with a PRECISION value of "M" may possibly occur within the project area in appropriate habitat.

REFER TO THE USERS GUIDE FOR EXPLANTIONS OF CODES, RANKS, AND FIELDS.

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# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL PERMITS REGIONAL OFFICES

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#### USERS GUIDE TO NY NATURAL HERITAGE DATA

New York Natural Heritage Program, 700 Troy-Schenectady Road, Latham NY 12110-2400 phone: (518) 783-3932

NATURAL HERITAGE PROGRAM: The Natural Heritage Program is an ongoing, systematic, scientific inventory whose goal is to compile and maintain on the rare plants and animals native to New York State, and significant ecological communities. The data provided in the report facilitate sound plann conservation, and natural resource management and help to conserve the plants, animals and ecological communities that represent New York's natural herita

DATA SENSITIVITY: The data provided in the report are ecologically sensitive and should be treated in a sensitive manner. The report is for your in-he use and should not be released, distributed or incorporated in a public document without prior permission from the Natural Heritage Program.

NATURAL HERITAGE REPORTS (may contain any of the following types of data): COUNTY NAME: County where the occurrence of a rare species or significant ecological community is located.

TOWN NAME: Town where the occurrence of a rare species or significant ecological community is located.

USGS 7 1/2 TOPOGRAPHIC MAP: Name of 7.5 minute US Geological Survey (USGS) quadrangle map (scale 1:24,000).

LAT: Centrum latitude coordinate of the location of the occurrence. Caution: latitude & longitude must be used with PRECISION (e.g. the location of occurrence with M (minute) precision is not precisely known & is thought to occur within a 1.5 mile radius of the latitude/longitude coordinates).

LONG: Centrum longitude coordinate of the location of the occurrence. See also LAT above. PRECISION: S - seconds: location known precisely. (within a 300' or 1-second radius of the latitude and longitude given. M - minutes: location known only to within a 1.5 mile (1 minute) radius of the latitude and longitude given.

G - general: location known to within a 5 mile radius of the latitude and longitude given.

SIZE (acres): Approximate acres occupied by the rare species or significant ecological community at this location. SCIENTIFIC NAME: Scientific name of the occurrence of a rare species or significant ecological community... COMMON NAME: Common name of the occurrence of a rare species or significant ecological community.

ELEMENT TYPE: Type of element (i.e. plant, animal, significant ecological community, other, etc.)

LAST SEEN: Year rare species or significant ecological community last observed extant at this location. EO RANK: Comparative evaluation summarizing the quality, condition, viability and defensibility of this occurrence. Use with LAST SEEN and PRECISIC A-E = Extant: A=excellent, B=good, C=marginal, D=poor, E=extant but with insufficient data to assign a rank of A-D.

- Failed to find. Did not locate species, but habitat is still there and further field work is justified.

H - Historical. Historical occurrence without any recent field information.

X = Extirpated, Field/other data indicates element/habitat is destroyed and the element no longer exists at this location.

7 - Unknown. Blank = Not assigned.

NEW YORK STATE STATUS (animals): Categories of Endangered and Threatened species are defined in New York State Environmental Conservat Law section 11-0535. Endangered, Threatened, and Special Concern species are listed in regulation GNYCRR 182.5.

E = Endangered Species: any species which meet one of the following criteria:

1) Any native species in imminent danger of extirpation or extinction in New York. 2) Any species listed as endangered by the United States Department of the Interior, as enumerated in the Code of Federal Regulations 50 CFR 17.11

T - Threatened Species: any species which meet one of the following criteria:

1) Any native species likely to become an endangered species within the foreseeable future in NY. 2) Any species listed as threatened by the U.S. Department of the Interior, as enumerated in the Code of the Federal Regulations 50 CFR 17.11.

SC = Special Concern Species: those species which are not yet recognized as endangered or threatened, but for which documented concern exists for the continued welfare in New York. Unlike the first two categories, species of special concern receive no additional legal protection under Environment Conservation Law section 11-0535 (Endangered and Threatened Species).

P = Protected Wildlife (defined in Environmental Conservation Law section 11-0103): wild game, protected wild birds, and endangered species of wildlife U = Unprotected (defined in Environmental Conservation Law section 11-0103): the species may be taken at any time without limit; however a license

G = Game (defined in Environmental Conservation Law section 11-0103); any of a variety of big game or small game species as stated in the Environmental Conservation Law, many normally have an open season for at least part of the year, and are protected at other times.

NEW YORK STATE STATUS (plants): The following categories are defined in regulation 6NYCRR part 193.3 and apply to NYS Environmental Conservation Law section 9-1503.

(blank) = no state status

E = Endangered Species: listed species are those with:

1) 5 or fewer extant sites, or

2) fewer than 1,000 individuals, or

3) restricted to fewer than 4 U.S.G.S. 7 1/2 minute topographical maps, or

4) species listed as endangered by U.S. Department of Interior, as enumerated in Code of Federal Regulations 50 CFR 17.11. T = Threatened: listed species are those with:

1) 6 to fewer than 20 extant sites, or

2) 1,000 to fewer than 3,000 individuals, or

3) restricted to not less than 4 or more than 7 U.S.G.S. 7 and ½ minute topographical maps, or

4) listed as threatened by U.S. Department of Interior, as enumerated in Code of Federal Regulations 50 CFR 17.11.

R = Rare: listed species have:

1) 20 to 35 extant sites, or

2) 3,000 to 5,000 individuals statewide.

II = Unprotected

V = Exploitably vulnerable; listed species are likely to become threatened in the near future throughout all or a significant portion of their range within the star if causal factors continue unchecked.

NEW YORK STATE STATUS (communities): At this time there are no categories defined for communities.

FEDERAL STATUS (plants and animals): The categories of federal status are defined by the United States Department of the Interior as part of the 1974 FEDERAL DIAIUS (plants and animals). The categories of residual status are defined by the College of the Federal Regulations 50 CFR 17). The species listed under this law are enumerated in the Federal Regulations 50 CFR 17). The species listed under this law are enumerated in the Federal Regulations 50 CFR 17).

pp. 39526 - 39527. (blank) = No Federal Endangered Species Act status.

LE - The taxon is formally listed as endangered.

LT = The taxon is formally listed as threatened. LELT - The taxon is formally listed as endangered in part of its range and threatened in other parts.

PE = The taxon is proposed as endangered.

C1 = Candidate, category 1 - There is sufficient information to list the taxon as endangered or threatened.

C2 = Candidate, category 2 - The taxon may be appropriate for listing but more data are needed.

3A = The taxon considered extinct by the U.S. Fish and Wildlife Service (USFWS).

3B = The taxon is no longer considered taxonomically distinct by the USFWS and thus is not appropriate for listing. 3B = 1 nc taxon is no longer considered and including admired by the control and the control and therefore not in need of official listing.

3C = The taxon has been shown to be more abundant, widespread, or better protected than previously thought and therefore not in need of official listing.

 The taxon is possibly extinct. •• = The taxon is thought to be extinct in the wild but extant in cultivation.

(C2NL) = Heritage code indicating that the taxon is a candidate in some areas, not listed in other areas. (E/SA) = Heritage code indicating that the taxon is endangered because of similarity of appearance to other endangered species or subspecies.

FEDERAL STATUS (ecological communities): At this time there are no federal status categories defined for ecological communities.

GLOBAL AND STATE RANKS (animals, plants, ecological communities and others): Each element has a global and state rank as determined by the NY Natural Heritage Program. These ranks carry no legal weight. The global rank reflects the ranky of the element throughout the world and the state rank reflects the rarity within New York State. Infraspecific taxa are also assigned a taxon rank to reflect the infraspecific taxon's rank throughout the world.

GLOBAL RANK:

G1 - Critically imperiled globally because of extreme rarity (5 or fewer occurrences), or very few remaining acres, or miles of stream) or especially vulnerable G2 = Imperiled globally because of rarity (6 - 20 occurrences, or few remaining acres, or miles of stream) or very vulnerable to extinction throughout its range

G3 - Either rare and local throughout its range (21 to 100 occurrences), or found locally (even abundantly at some of its locations) in a restricted range (e.g. a

physiographic region), or vulnerable to extinction throughout its range because of other factors.

G4 - Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery. G5 = Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.

GH = Historically known, with the expectation that it might be rediscovered.

GX - Species believed to be extinct.

GU - Status unknown.

STATE RANK:

SI = Typically 5 or fewer occurrences, very few remaining individuals, acres, or miles of stream, or some factor of its biology making it especially vulnerable S2 - Typically 6 to 20 occurrences, few remaining individuals, acres, or miles of stream, or factors demonstrably making it very vulnerable in New York State.

S3 = Typically 21 to 100 occurrences, limited acreage, or miles of stream in New York State.

S4 - Apparently secure in New York State.

S5 - Demonstrably secure in New York State.

SH = Historically known from New York State, but not seen in the past 15 years.

SX - Apparently extirpated from New York State,

SA = Accidental or casual in the state.

SE = Exotic, not native to New York State. SP = Element potentially occurs in the state but there are no occurrences reported,

SR = Reported in the state but without persuasive documentation.

TAXON (I) RANK: The T-ranks (II - T5) are defined the same way the Global ranks (GI - G5) are but the T-rank only refers to the rarity of the subspecific taxon of the species as a whole.

T1 through T5 - See Global Rank definitions above.

Q = Indicates a question exists whether or not the taxon is a good taxonomic entity.

? - Indicates a question exists about the rank.

OFFICE USE: Information for use by the Natural Heritage Program.

SIGNIFICANT HABITAT DATABASE REPORTS (Use of this database is slowly being discontinued as the data is integrated into Heritage databases)

REPORT ID: Significant habitat file code.

NAME OF AREA: Site name where the significant habitat is located.

TYPE OF AREA: Type of significant habitat.

COUNTY/TOWN OR CITY: County and town where the significant habitat is located.

QUADRANGLE: Name of the USGS 7.5 minute topographic map where the significant habitat is located. LATITUDE: Latitude coordinate (degrees, minutes, seconds) for the location of the significant habitat.

LONGITUDE: Longitude coordinate for the location of the significant habitat.



#### United States Department of the Interior

FISH AND WILDLIFE SERVICE 3817 LUKER ROAD CORTLAND, NY 13045

November 4, 1998

Deborah A. Roberts, Ph.D.
President
Roberts Environmental Consulting, Inc.
273 Haviland Road
Queensbury, NY 12804

Dear Dr. Roberts:

This responds to your letter of October 13, 1998, requesting information on the presence of endangered or threatened species in the vicinity of the Northeastern Industrial Park, especially at three Areas of Concern that were Formerly Used Defense Sites, in the Town of Guilderland, Albany County, New York.

Except for occasional transient individuals, no Federally listed or proposed endangered or threatened species under our jurisdiction are known to exist in the project impact area. Therefore, no Biological Assessment or further Section 7 consultation under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) is required with the U.S. Fish and Wildlife Service (Service). Should project plans change, or if additional information on listed or proposed species becomes available, this determination may be reconsidered. A compilation of Federally listed and proposed endangered and threatened species in New York is enclosed for your information.

The above comments pertaining to endangered species under our jurisdiction are provided pursuant to the Endangered Species Act. This response does not preclude additional Service comments under the Fish and Wildlife Coordination Act or other legislation.

For additional information on fish and wildlife resources or State-listed species, we suggest you contact:

New York State Department of Environmental Conservation Region 4 1150 N. Westcott Road Schenectady, NY 12306 (518) 357-2066 New York State Department of Environmental Conservation Wildlife Resources Center - Information Services New York Natural Heritage Program 700 Troy-Schenectady Road Latham, NY 12110-2400 (518) 783-3932

National Wetlands Inventory (NWI) maps may or may not be available for the project area. However, while the NWI maps are reasonably accurate, they should not be used in lieu of field surveys for determining the presence of wetlands or delineating wetland boundaries for Federal regulatory purposes. Copies of specific NWI maps can be obtained from:

#### Cornell Institute for Resource Information Systems 302 Rice Hall Cornell University Ithaca, NY 14853

Telephone: (607) 255-4864

Work in certain waters and wetlands of the United States may require a permit from the U.S. Army Corps of Engineers (Corps). If a permit is required, in reviewing the application pursuant to the Fish and Wildlife Coordination Act, the Service may concur, with or without stipulations, or recommend denial of the permit depending upon the potential adverse impacts on fish and wildlife resources associated with project implementation. The need for a Corps permit may be determined by contacting Mr. Joseph Seebode, Chief, Regulatory Branch, U.S. Army Corps of Engineers, 26 Federal Plaza, New York, NY 10278 (telephone: [212] 264-3996).

If you require additional information please contact Michael Stoll at (607) 753-9334.

Sincerely, Mark W. Church

Andrew State of the Miles of Areas Lawrence on a section

Sherry W. Morgan Field Supervisor

#### Enclosure

cc: NYSDEC, Schenectady, NY (Environmental Permits) NYSDEC, Latham, NY COE, New York, NY NYSDEC, Latham, NY

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# FEDERALLY LISTED AND PROPOSED ENDANGERED AND THREATENED SPECIES IN NEW YORK

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| Non-manufacture of the last of | REPTILES Turtle, bog             | Clemmys muhlenbergii       | . The state                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Albany, Colum<br>Genesee, Ora<br>Putnam, Sendand Westche | inge, Oswego,<br>eca, Ulster, Wayne, |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Turtle, green*                   | Chelonia mydas             | T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          | er visitor coastal                   |
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| CONTRACTOR OF THE PERSON OF TH | Turtle, loggerhead*              | Caretta caretta            | <b>T</b> continue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Oceanic summ waters                                      | er resident coastal                  |
| Navage<br>Parage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Turtle, Atlantic ridley*         | Lepidochelys kempii        | <b>E</b><br>1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Oceanic summ coastal water                               |                                      |
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| -ac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | BIRDS                            | Haliaeetus leucocephalus   | т                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Entire state                                             |                                      |
| the reservoir                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Eagle, bald<br>Falcon, peregrine | Falco peregrinus           | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Entire state - re<br>former breed                        | e-establishment to<br>ing range in   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                            | 44 <u>_</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | progress                                                 |                                      |
| f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Plover, piping                   | Charadrius melodus         | E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Great Lakes W                                            |                                      |
| Towns con-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                            | $\underline{\mathtt{T}}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                          | coastal New York                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Tern, roseate                    | Sterna dougallii dougallii | E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Southeastern c state                                     | oastal portions of                   |
| 200002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NAANANAA LO                      | •                          | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          |                                      |
| N. F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MAMMALS  Pot Indiana             | Myotis sodalis             | Е                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Entire state                                             |                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Bat, Indiana                     | Felis concolor couguar     | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          | robably extinct                      |
| 20.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cougar, eastern                  | Balaenoptera musculus      | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Oceanic                                                  | loodoly exilier                      |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Whale, blue*                     | Balaenoptera physalus      | E E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Oceanic                                                  |                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Whale, finback*                  | Megaptera novaeangliae     | E<br>E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Oceanic                                                  | •                                    |
| <b>F</b> :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Whale, humpback*                 | Eubalaena glacialis        | Ē                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Oceanic                                                  |                                      |
| Andrews and the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Whale, right*                    | Balaenoptera borealis      | Ē                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Oceanic                                                  |                                      |
| <b>&amp;</b> .:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Whale, sei*                      | Physeter catodon           | Ë                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Oceanic                                                  |                                      |
| ans to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Whale, sperm*                    | r nyseter catouon          | Ļ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Occanic                                                  |                                      |
| Reconstanting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MOLLUSKS                         |                            | i e e e e e e e e e e e e e e e e e e e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                          |                                      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Snail, Chittenango               | Succinea chittenangoensis  | T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Madison Coun                                             | tv                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ovate amber                      | Ducemen emineralizations   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Triawinon Coun                                           |                                      |
| A CONTRACTOR OF THE CONTRACTOR | Mussel, dwarf wedge              | Alasmidonta heterodon      | E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Orange County<br>River                                   | y - Iower Neversink                  |

<sup>\*</sup> Except for sea turtle nesting habitat, principal responsibility for these species is vested with the National Marine Fisheries Service.

#### FEDERALLY LISTED AND PROPOSED ENDANGERED AND THREATENED SPECIES IN NEW YORK (Cont'd)

| Common Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Scientific Name                                       | <u>Status</u>                    | <u>Distribution</u>                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------|-----------------------------------------------------------|
| BUTTERFLIES Butterfly, Karner blue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Lycaeides melissa samuelis                            | <b>E</b>                         | Albany, Saratoga, Warren, and Schenectady Counties        |
| PLANTS Monkshood, northern wild                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Aconitum noveboracense                                | The property                     | Ulster, Sullivan, and<br>Delaware Counties                |
| Pogonia, small whorled<br>Swamp pink                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Isotria medeoloides<br>Helonias bullata               | T<br>T                           | Entire state Staten Island - presumed extirpated          |
| Gerardia, sandplain<br>Fern, American<br>hart's-tongue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Agalinis acuta Asplenium scolopendrium var. americana | eper ka <b>E</b> . A sinak ere k | Nassau and Suffolk Counties Onondaga and Madison Counties |
| Orchid, eastern prairie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Platanthera leucophea                                 | T                                | Not relocated in New York                                 |
| fringed<br>Bulrush,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Scirpus ancistrochaetus                               | E                                | Not relocated in New York                                 |
| northeastern<br>Roseroot, Leedy's                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Sedum integrifolium ssp.<br>Leedyi                    | T .                              | West shore of Seneca Lake                                 |
| Amaranth, seabeach<br>Goldenrod, Houghton's                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Amaranthus pumilus<br>Solidago houghtonii             | T<br>Tanglia jagar               | Atlantic coastal plain beaches<br>Genesee County          |
| in the second of |                                                       | •                                |                                                           |

E=endangered T=threatened P=proposed