Appendix F Water Resources and Wetlands

Appendix F-1 Wetland Delineation Report

From 2006 CALP DGEIS

WILLIAM KENNY ASSOCIATES LLC

SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

March 22, 200

Mr. George Nieves US Army Corps of Engineers, NY District Attn: Regulatory Branch – Room 1937 26 Federal Plaza New York, New York 10278-0990

Re: The Concord Resort

219 Concord Road, Kiamesha, NY 12751

Dear Mr. Nieves:

William Kenny Associates LLC investigated the referenced project site in Kiamesha Lake, New York to identify and delineate wetlands and other Waters of the United States. On behalf of Concord Associates, LP, we respectfully request a jurisdictional determination by the New York District regarding the referenced property and completed wetland and watercourse investigation. Enclosed for your review and consideration are the following documents related to the completed investigation. The basis of the investigation and a brief description of existing site conditions follow the list of attached documents.

Attached Documents

- 1. Project Location (map)
- 2. Federal Wetland and Watercourse Delineation Map
- 3. Wetland Delineation Data Sheets
- 4. Wetland and Watercourse Photos
- 5. Wetland Jurisdiction and Mapping (drawing)
- 6. Wetland Classifications and Functions (drawing)

Basis of Investigation

Wetlands were identified and delineated in accordance with the Routine Method of 1987 Federal Manual for Identifying and Delineating Jurisdictional Wetlands (87 Manual). According to the 87 Manual, a wetland is an area in which a minimum of one positive indicator is identified for each of the following: wetland hydrology, hydric soils, and hydrophytic vegetation. Areas that are wetlands according to the 87 Manual were identified and delineated and are shown on the attached Federal Wetland and Watercourse Delineation Map. However, isolated wetlands are not regulated by the ACOE and as such have been identified accordingly on the map. Isolated wetlands are wetlands

Mr. George Nieves March 22, 2006

Re: The Concord Resort, Kiamesha, NY

separated from Waters of the United States by natural upland features other than river berms and beach dunes. Non-wetland Waters of the United States (e.g. ponds and streams, including intermittent watercourses) were identified based on the presence or absence of an ordinary high water mark or bed and bank.

Page 2

Existing Site Conditions

The Project Site consists of approximately 1,750 acres within the Town of Thompson, in Sullivan County New York. Sullivan County and the site are within the Catskills region of New York.

A 36-hole golf course is present at the property. Golf course improvements include a maintenance facility and hotel. Much of the improvements are in the central portion of the property. Areas of broadleaved deciduous and needleleaved coniferous forest surround most of the golf course areas. Also located within the property area are various abandoned improvements; such as cottages, a small ski slope, a stable, and a large hotel and auditorium. A number of public roads run along and within the property.

The landscape of the site is characterized by two large rounded (drumlin) hills that are oriented north to south and located in the western and eastern portions of the property. The slopes of these hills are fairly regular (not undulating) and not strongly controlled by underlying bedrock, which is primarily a red sandstone.

The major drainage feature on the project site is Kiamesha Creek and numerous associated ponds and lakes. Beginning in the northwest portion of the site, at Kiamesha Lake, the Creek discharges to the south and flows along the western boundary of the site. At the southwestern portion of the site the Creek converges with two other watercourses (Tannery Brook and an unnamed watercourse). From there, the creek flows north through the central portion of the site and the primary golf course area. The two major hills are located east and west of this segment of the Creek. At the northeastern portion of the site, Kiamesha Creek turns east and then south where it flows along the eastern boundary of the project area.

The soils throughout the site are primarily red sandstone with compacted subsoil. The vegetative cover-type consist of some meadow, lawns with other ornamentals, golf course turf, and broadleaved deciduous and neddleleaved evergreen forest areas.

A complete study of the wetlands and watercourses can be found in the Functional Assessment and the HGM data sheets summary table.

Mr. George Nieves

Re: The Concord Resort, Kiamesha, NY

March 22, 2006

Page 3

Conclusions

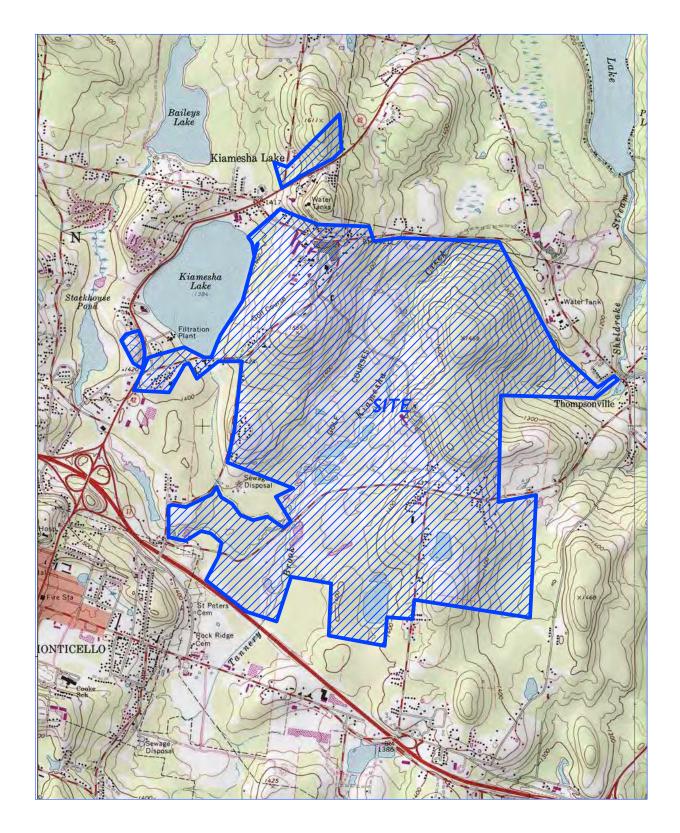
William Kenny Associates investigated the subject property and delineated wetlands and other Waters of the United States. We respectfully request jurisdictional determination by the New York District for the property. Please do not hesitate to contact me if you should have question, comments or require additional information. Thank you for your attention to this matter.

Sincerely,

William L. Kenny, CPWS, ASI

Copy: Henry Zabatta, Concord Associates, LP

Ref. No. 100309R02



WILLIAM KENNY ASSOCIATES LLC

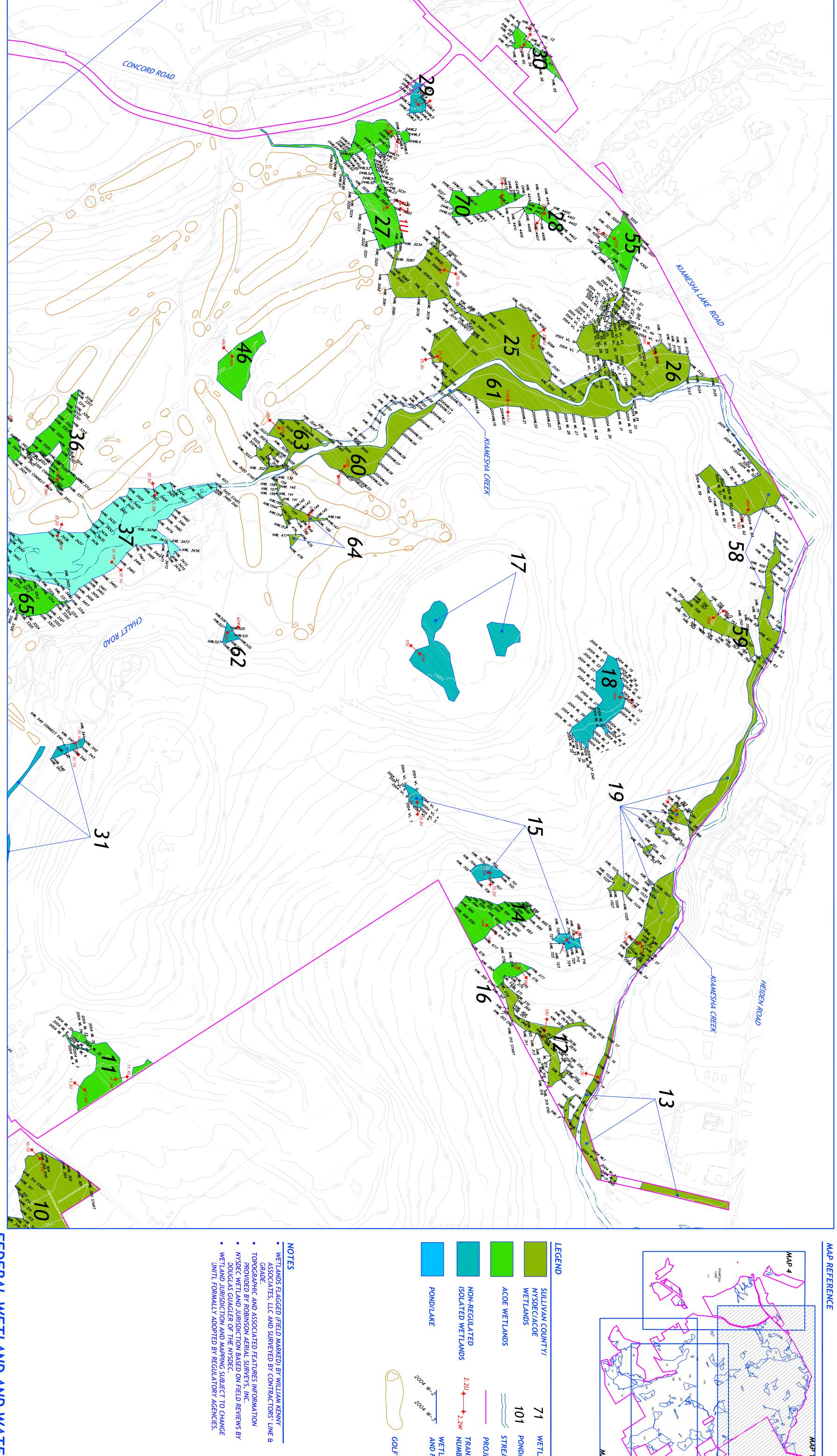
SOIL SCIENCE ECOLOGICAL SERVICES LAND USE PLANNING LANDSCAPE ARCHITECTURE

217 WEBB ROAD FAIRFIELD, CT 06825 PHONE: 203 366 0588 FAX: 203 366 0067 www.wkassociates.net

PROJECT LOCATION THE CONCORD RESORT KIAMESHA LAKE, NEW YORK

DATE: MARCH 22, 2006 NOT TO SCALE





700x 4 3

WETLAND BOUNDARY AND FLAG NUMBER

GOLF COURSE FEATURE

TRANSECT NUMBER

101

POND/LAKE No.

STREAM OR BROOK

PROJECT BOUNDARY

71

WETLAND No.

MAP

FEDERAL WETLAND AND WATERCOURSE DELINEATION MAP

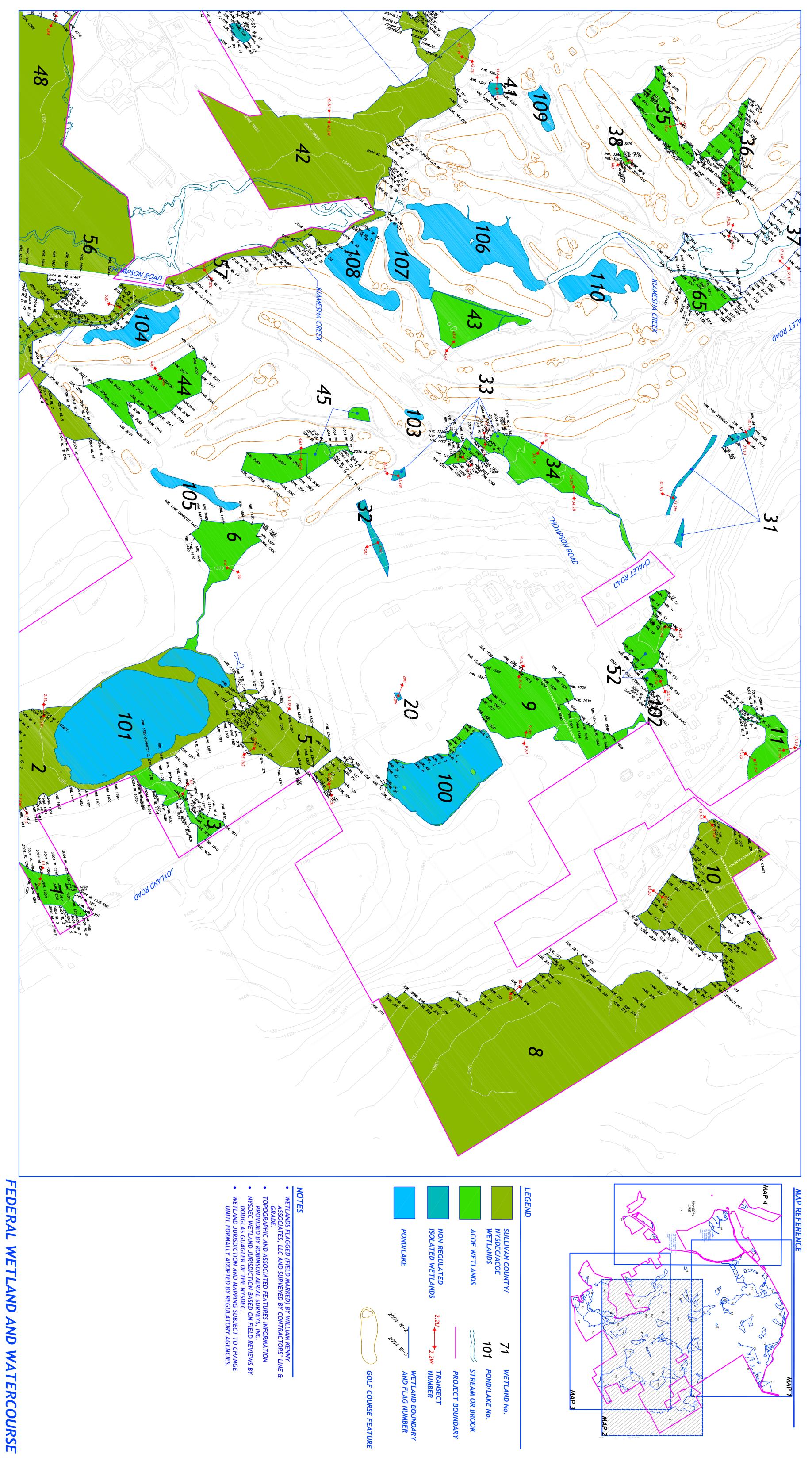
THE CONCORD RESORT

KIAMESHA LAKE, NEW YORK

DATE: MARCH 22, 2006
SCALE: 1" = 300'-0" CONCORD ASSOCIATES, LP

WKA REF. NO. 100309D01-1





FEDERAL WETLAND AND WATERCOURSE
DELINEATION MAP
OWNER:

CONCORD ASSOCIATES, LP

THE CONCORD RESORT

KIAMESHA LAKE, NEW YORK

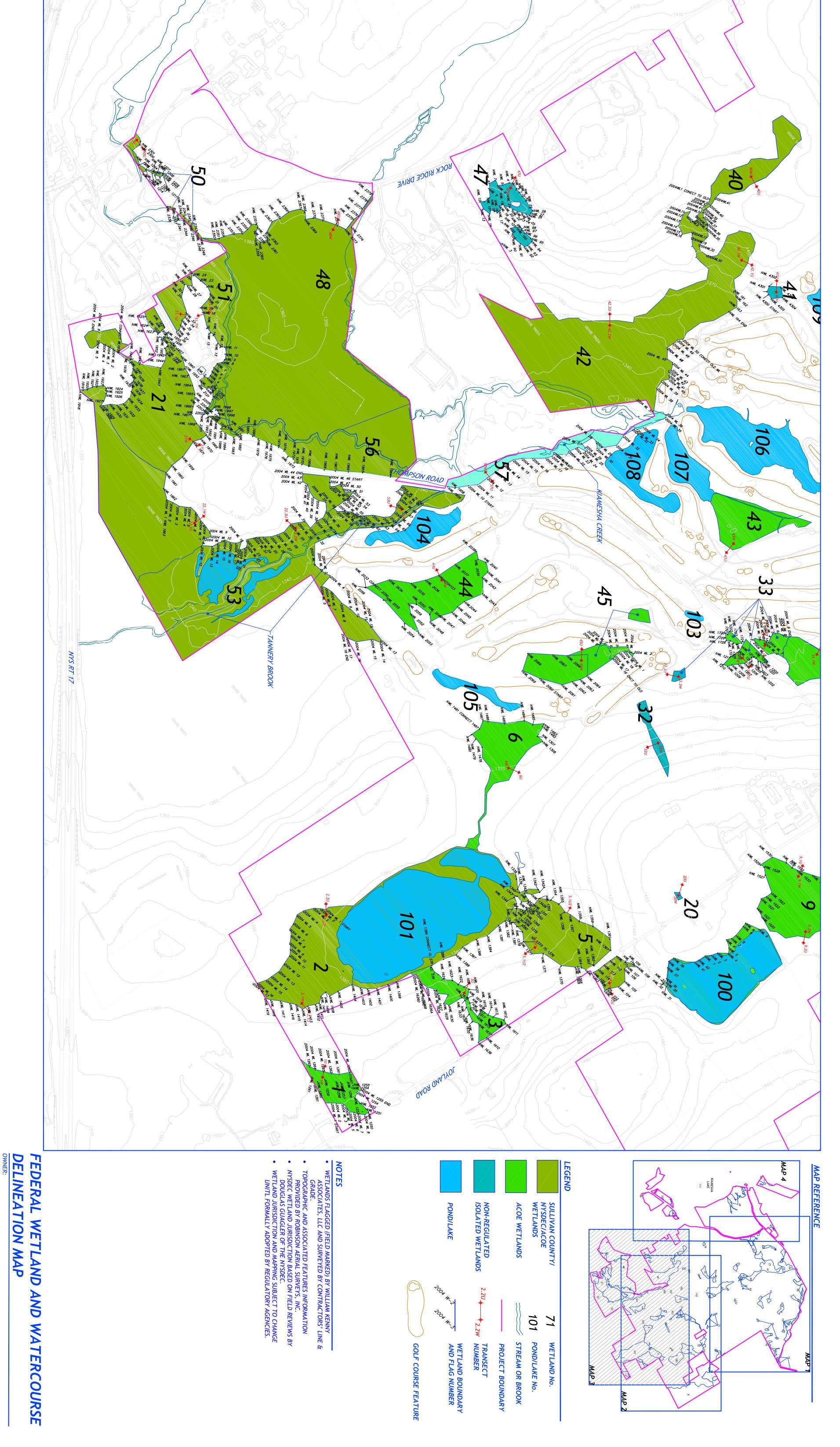
DATE: MARCH 22, 2006

SCALE: 1" = 300'-0"



WKA REF. NO. 100309D01-2





OWNER:

CONCORD ASSOCIATES, LP

LOCATION:

THE CONCORD RESORT

KIAMESHA LAKE, NEW YORK

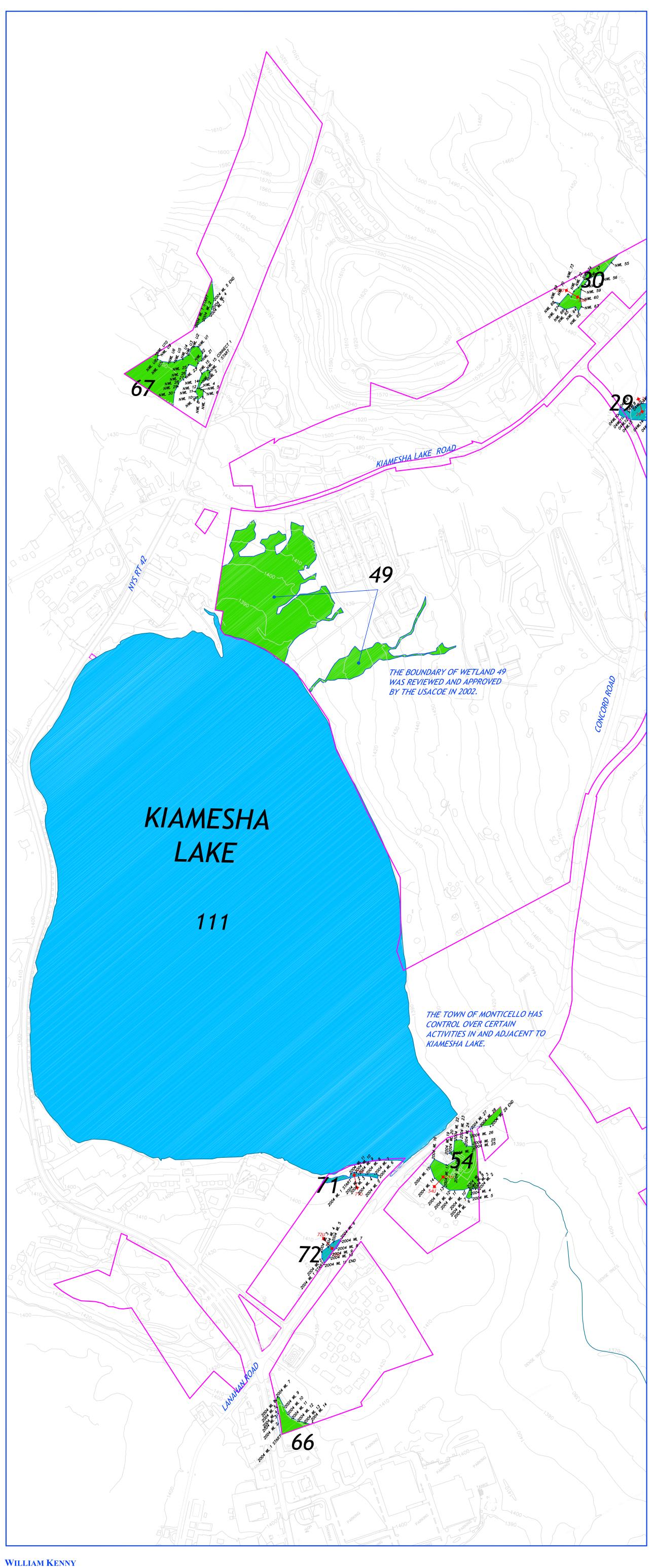
DATE: MARCH 22, 2006

SCALE: 1" = 300'-0"

MAP

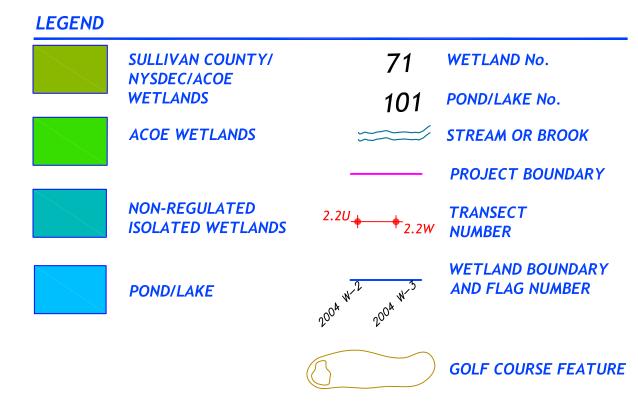
WKA REF. NO. 100309D01-3

3 OF 4



ASSOCIATES LLC SOIL SCIENCE
ECOLOGICAL SERVICES
LAND USE PLANNING
LANDSCAPE ARCHITECTURE

MAP REFERENCE MAP 3



NOTES

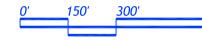
- WETLANDS FLAGGED (FIELD MARKED) BY WILLIAM KENNY
 ASSOCIATES, LLC AND SURVEYED BY CONTRACTORS' LINE &
 GRADE.
 TOPOGRAPHIC AND ASSOCIATED FEATURES INFORMATION
 PROVIDED BY ROBINSON AERIAL SURVEYS, INC.
- NYSDEC WETLAND JURISDICTION BASED ON FIELD REVIEWS BY
- DOUGLAS GUAGLER OF THE NYSDEC.
- WETLAND JURISDICTION AND MAPPING SUBJECT TO CHANGE UNITL FORMALLY ADOPTED BY REGULATORY AGENCIES.

FEDERAL WETLAND AND **WATERCOURSE DELINEATION MAP**

CONCORD ASSOCIATES, LP

LOCATION:

THE CONCORD RESORT KIAMESHA LAKE, NEW YORK



WKA REF. NO. 100309D01-4

DATE: MARCH 22, 2006 SCALE: 1" = 300'-0"



| Applicant/C Investigato [X] Do nori [] Have v [X] Is the a | e: Concord Resort Owner: Concord A r: Ethan Stewart mal circumstances e egetation, soils, or h area a potential prob | exist on the site? nydrology been distu | rbed? | Cour State Com Statio | : October 14, 2004 http: Sullivan :: New York munity ID: W15 on ID: Transect 15.1 D: Upland | |
|---|---|--|---|--|---|--------------------------------------|
| Vegetation Dominant | | | Common No | ma | % Cover | Indicator |
| Herbaceou X | Species <u>us</u> Thelypteris novel sphagnum, sp. | boracensis | Fern,New Yo | | % Cover | Indicator FAC |
| Tree X % Species Remarks | Fagus grandifolia Acer rubrum Tsuga canadens that are OBL, FACV | is | Beech,Americ Maple,Red Hemlock,Eas AC-): 50 | tern | Classification: | FACU FAC FACU |
| Hydrolog | av | | Primary Wetland Hyd | drology Indicators | Secondary Hydrolog | u Indicators |
| [] Recoi [] [] | rded Data (describe Stream, Lake, or Ti Aerial Photograph Other (describe in reservations: | in remarks) de Gage | [] Inundated [] Saturated in u [] Water marks [] Drift lines [] Sediment dep | pper 12 inches | [] Oxidized root [] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | channels leaves ey data est |
| Dep | oth of Surface Wate oth to Free Water in oth to Saturated Soi | Pit(in.): >24 | [] Drainage patt | erns in wellands | | |
| Soils | | | | | | |
| Depth F (in.) | lor. Matrix Color | Mottle / 2nd Mo Color | | Texture, ontrast Structure | etc | |
| 0-2 A 2-12 E | 2.5YR 3/3 | 2.5YR 2.5/1 7.5YR 4/2 | few few | Silt Loam Silt Loam | 1 | |
| [] His [] His [] Su [] Pro [] Re | stic Epipedon Ilfidic Odor obable Aquatic Mois ducing Conditions eyed or Low-Chrom | • | [] Orga [] Liste [] Liste | cretions Organic % in Surface Inic Streaking d on Local Hydric Soils d on National Hydric S r (explain in remarks) | s List | |
| Drainage | | | , | oservations match map |) | |
| Remarks | | | | | | |
| Wetland | Determinatio | n | | | | |
| [] Hydro [] Hydrio | ophytic Vegetation P c Soils Present and Hydrology Prese | resent | []This | Data Point is a Wetlan | d | |

Job Number: 100309 **Data Form**

City: Thompson

Routine Wetland Determination Wetland Data Point: W15 (wetland) Project/Site: Concord Resort, Thompson, NY Date: October 14, 2004 County: Sullivan Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart State: New York [X] Do normal circumstances exist on the site? Community ID: W15 [] Have vegetation, soils, or hydrology been disturbed? Station ID: Transect 15.1 [X] Is the area a potential problem area? Plot ID: Wetland (east) Vegetation **Dominant Species** Common Name % Cover Indicator **Herbaceous** FAC Thelypteris noveboracensis Fern, New York Polystricum moss Osmunda x ruggii Fern NΙ sphagnum, sp. <u>Tree</u> Fagus grandifolia Beech FAC+ Carpinus caroliniana Hornbeam, American FAC % Species that are OBL, FACW, or FAC (except FAC-): 100 Cowardin Classification: Remarks Hydrology Primary Wetland Hydrology Indicators Secondary Hydrology Indicators [] Recorded Data (describe in remarks) [X] Inundated [] Oxidized root channels [] Stream, Lake, or Tide Gage [X] Saturated in upper 12 inches [X] Water-stained leaves [] Aerial Photograph [X] Water marks [] Local soil survey data [] Other (describe in remarks) [] Drift lines [] FAC-Neutral test [] Sediment deposits [] Other (explain in remarks) Field Observations: [X] Drainage patterns in wetlands Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): 2 Depth to Saturated Soils(in.): 2 Remarks Soils Depth Hor. Matrix Mottle / 2nd Mottle Texture. Abundance Contrast Structure, etc. (in.) Color GLEY2 2.5/5PB 2-0 0 0-4 Α GLEY1 4/N 7.5YR 6/8 Silt Hydric Soils Indicators [] Histosol [] Concretions [] High Organic % in Surface Layer [] Histic Epipedon [] Sulfidic Odor [] Organic Streaking [X] Probable Aquatic Moist Regime [] Listed on Local Hydric Soils List [X] Reducing Conditions [] Listed on National Hydric Soils List [] Other (explain in remarks) [X] Gleved or Low-Chroma Colors Unit Name: Taxonomy: [] Field Observations match map Drainage Class: Remarks Hard Pan 6" Wetland Determination [X] Hydrophytic Vegetation Present [X] This Data Point is a Wetland [X] Hydric Soils Present

Remarks

[X] Wetland Hydrology Present

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination** Wetland Data Point: W15 Project/Site: Concord Resort, Thompson, NY Date: October 14, 2004 Applicant/Owner: Concord Associates, LP County: Sullivan Investigator: Ethan Stewart State: New York [X] Do normal circumstances exist on the site? Community ID: W15 [] Have vegetation, soils, or hydrology been disturbed? Station ID: Transect 15.2 [X] Is the area a potential problem area? Plot ID: Upland (central) Vegetation **Dominant Species Common Name** % Cover Indicator **Herbaceous** sphagnum sp. <u>Tree</u> Fagus grandifolia Beech FAC+ **FACU** Tsuga canadensis Hemlock, Eastern FACU Pinus strobus Pine, Eastern White % Species that are OBL, FACW, or FAC (except FAC-): 50 Cowardin Classification: Remarks Hydrology Primary Wetland Hydrology Indicators Secondary Hydrology Indicators [] Recorded Data (describe in remarks) [] Inundated [] Oxidized root channels [] Stream, Lake, or Tide Gage [] Saturated in upper 12 inches [] Water-stained leaves [] Aerial Photograph [] Water marks [] Local soil survey data [] Other (describe in remarks) [] Drift lines [] FAC-Neutral test [] Sediment deposits [] Other (explain in remarks) Field Observations: [] Drainage patterns in wetlands Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks Soils Depth Hor. Matrix Mottle / 2nd Mottle Texture, Color Color Abundance Structure, etc. (in.) Contrast 2-0 5YR 3/1 decomposed leaves 2.5YR 4/1 0-6 Α 2.5YR 5/4 common Sandy Loam Hydric Soils Indicators [] Histosol [] Concretions [] High Organic % in Surface Layer [] Histic Epipedon [] Sulfidic Odor [] Organic Streaking [] Probable Aquatic Moist Regime [] Listed on Local Hydric Soils List [] Reducing Conditions [] Listed on National Hydric Soils List [] Gleyed or Low-Chroma Colors [] Other (explain in remarks) Unit Name: Taxonomy:

Wetland Determination

Drainage Class:

[X] Hydrophytic Vegetation Present
[] Hydric Soils Present
[] Wetland Hydrology Present

[] Wetland Hydrology Present

Remarks

Remarks

Upland-no soils or hydrology

[] Field Observations match map

City: Thompson

Job Number: 100309

Wetland Data Point: W15 (wetland)

| Applicant/Ov | Concord Resort, | • | | Date: October 14, 2004 County: Sullivan | |
|---|---|----------------------------------|--|--|-------------------------------|
| [X] Do norma | Ethan Stewart al circumstances ex getation, soils, or hy ea a potential proble | drology been distu | rbed? | State: New York Community ID: W15 Station ID: Transect 15.2 Plot ID: Wetland (central) | |
| Vegetatio Dominant | n Species | | Common Name | % Cover | Indicator |
| Herbaceous Tree | | | Sommer Name | 7,0 00 (0.1 | maisato |
| X | Tsuga canadensis Pinus strobus Fagus grandifolia | | Hemlock,Eastern Pine,Eastern White Beech | | FACU FACU FAC+ |
| % Species th Remarks | nat are OBL, FACW | or FAC (except F | AC-): 0 | owardin Classification: | |
| Hydrology | y | | Primary Wetland Hydrology Indicato | ors Secondary Hydrolo | gy Indicators |
| [] S [] A [] C Field Obse Depti Depti | ed Data (describe in Stream, Lake, or Tide Aerial Photograph Other (describe in re- rvations: h of Surface Water (in h to Free Water in F h to Saturated Soils | e Gage marks) n.): 0 tit(in.): 0 | [] Inundated [X] Saturated in upper 12 inches [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in wetland | [] Local soil su [] FAC-Neutral [] Other (expla | d leaves rvey data test |
| Remarks | | | | | |
| Soils | Matrice | Martin / On al Ma | .ш. | | |
| (in.) | or. Matrix Color | Mottle / 2nd Mo Color | | exture, structure, etc. | |
| 2-0 O 0-2 A 2-15 B | GLEY2 2.5/5PB GLEY1 5/N GLEY1 6/N | GLEY1 4/N 5YR 5/8 | | iilt Loam andy Loam | |
| [] Histo [] Histo [] Sulfi [] Prob [X] Red | is Indicators osol ic Epipedon idic Odor oable Aquatic Moist ucing Conditions /ed or Low-Chroma | Regime | [] Concretions [] High Organic % in \$ [] Organic Streaking [] Listed on Local Hyd [] Listed on National F [] Other (explain in re | ric Soils List Hydric Soils List | |
| Unit Name: Drainage C | | | Taxonomy: [] Field Observations ma | tch map | |
| Remarks | | | | | |
| Wetland D | Determination | | | | |
| [X] Hydrop [X] Hydric | hytic Vegetation Pre Soils Present d Hydrology Presen | esent | [X] This Data Point is a | Wetland | |

Job Number: 100309 City: Thompson

Wetland Data Point: W1 (wetland)

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been dist [X] Is the area a potential problem area? Vegetation | | Date: October 12, 2004 County: Sullivan State: New York Community ID: W1 Station ID: Transect 1.1 Plot ID: Wetland |
|---|---|--|
| Dominant Species Tree | Common Name | % Cover Indicator |
| X Acer rubrum Tsuga canadensis % Species that are OBL, FACW, or FAC (except Remarks | Maple,Red Hemlock,Eastern FAC-): 100 | FAC FACU Cowardin Classification: |
| Hydrology | Primary Wetland Hydrology Indic | ators Secondary Hydrology Indicators |
| [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): 5 Remarks | [] Inundated [X] Saturated in upper 12 inch [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetla | [] Oxidized root channels les [X] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| Depth Hor. Matrix Mottle / 2nd N (in.) Color Color | Mottle Abundance Contrast | Texture, Structure, etc. |
| (in.) Color Color 2-0 O GLEY2 2.5/5PB 0-5 A 2.5YR 5/1 5-12 B 2.5YR 5/2 5YR 5/8 2.5YR 4/2 | few common | decomposed leaves Silt Silt |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [X] Reducing Conditions [X] Gleyed or Low-Chroma Colors | [] Concretions [] High Organic % i [] Organic Streakin [] Listed on Local H [] Listed on Nationa [] Other (explain in | g lydric Soils List al Hydric Soils List |
| Unit Name: Drainage Class: | Taxonomy: [] Field Observations r | natch map |
| Remarks | | |
| Wetland Determination [X] Hydrophytic Vegetation Present [X] Hydric Soils Present [X] Wetland Hydrology Present Remarks | [X] This Data Point is | s a Wetland |

| Applicant/Ow Investigator: [X] Do normal [] Have veg [] Is the are Vegetation Dominant Herbaceous X Tree X | Species | Common Name Fern,New York Fern Hemlock,Eastern Maple,Red Pine,Eastern White | Date: October 12, 2004 County: Sullivan State: New York Community ID: W3 Station ID: Transect 3.1 Plot ID: Upland Cover | Indicator FAC NI FACU FAC FACU FAC |
|---|--|--|--|--------------------------------------|
| Remarks | acaro 032, 171011, 011710 (0700pt1710). | | Marain Glassingalism | |
| [] Si [] Ai [] O Field Obser Depth Depth | ed Data (describe in remarks) [tream, Lake, or Tide Gage [erial Photograph [ther (describe in remarks) [vations: | ary Wetland Hydrology Indicator] Inundated] Saturated in upper 12 inches] Water marks] Drift lines] Sediment deposits] Drainage patterns in wetlands | [] Oxidized root of a control of the control of th | channels leaves ey data est |
| (in.) 2-0 O 0-3 A | 5YR 3/1 2.5YR 4/3 | oundance Contrast Str de Sil | xture, ructure, etc. ecomposed leaves t Loam | |
| [] Sulfid [] Prob [] Redu [] Gley Unit Name: | osol c Epipedon dic Odor able Aquatic Moist Regime ucing Conditions ed or Low-Chroma Colors | [] Concretions [] High Organic % in St [] Organic Streaking [] Listed on Local Hydri [] Listed on National Hy [] Other (explain in rem | urface Layer ic Soils List ydric Soils List arks) | |
| Drainage Cl Remarks | ass: | [] Field Observations mate | cn map | |
| | Determination | | | |
| [] Hydroph [] Hydric S | nytic Vegetation Present Soils Present I Hydrology Present | [] This Data Point is a \ | Wetland | |

Data Form Routine Wetland Determination Job Number: 100309 City: Thompson Wetland Data Point: W14

| Project/Site: Concord Resort, Thompson, NY | Date: October 14, 2004 |
|--|---|
| Applicant/Owner: Concord Associates, LP | County: Sullivan |
| Investigator: Ethan Stewart | State: New York |
| [X] Do normal circumstances exist on the site? | Community ID: W14 |
| [] Have vegetation, soils, or hydrology been disturbed? | Station ID: Transect 14.1 |
| [X] Is the area a potential problem area? | Plot ID: Upland |
| Vegetation | |
| | Common Name % Cover Indicator |
| Herbaceous Sphagnum an | |
| Sphagnum sp. <u>Tree</u> | |
| | lemlock,Eastern FACU |
| % Species that are OBL, FACW, or FAC (except FAC-): 0 | Cowardin Classification: |
| Remarks | |
| Headre Leann | |
| Hydrology Primary | Wetland Hydrology Indicators Secondary Hydrology Indicators |
| , | undated [] Oxidized root channels |
| | aturated in upper 12 inches [] Water-stained leaves |
| | ater marks [] Local soil survey data |
| [] Other (describe in remarks) [] D | rift lines [] FAC-Neutral test |
| Field Observations. | ediment deposits [] Other (explain in remarks) |
| Depth of Surface Water(in.): 0 | rainage patterns in wetlands |
| Depth to Free Water in Pit(in.): >24 | |
| Depth to Saturated Soils(in.): >24 | |
| , , | |
| Remarks | |
| Soils | |
| | . |
| Depth Hor. Matrix Mottle / 2nd Mottle (in.) Color Color Abune | Texture, dance Contrast Structure, etc. |
| (in.) Color Color Abune 2-0 O 5YR 3/1 | decomposed leaves |
| 0-2 A 5YR 3/2 5YR 2.5/1 few | Silt |
| 2-12 B 7.5YR 4/4 10YR 4/3 few | Silt |
| Hydric Soils Indicators | |
| [] Histosol | [] Concretions |
| [] Histic Epipedon | [] High Organic % in Surface Layer |
| [] Sulfidic Odor | [] Organic Streaking |
| [] Probable Aquatic Moist Regime | [] Listed on Local Hydric Soils List |
| [] Reducing Conditions | [] Listed on National Hydric Soils List |
| [] Gleyed or Low-Chroma Colors | [] Other (explain in remarks) |
| | [] Garact (Oxplaint in Tornanco) |
| [] Gloyed or Low Childha Goldin | |
| Unit Name: | Taxonomy: |
| | Taxonomy: [] Field Observations match map |
| Unit Name: | • |
| Unit Name: Drainage Class: Remarks | • |
| Unit Name: Drainage Class: Remarks Wetland Determination | [] Field Observations match map |
| Unit Name: Drainage Class: Remarks Wetland Determination [] Hydrophytic Vegetation Present | • |
| Unit Name: Drainage Class: Remarks Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present | [] Field Observations match map |
| Unit Name: Drainage Class: Remarks Wetland Determination [] Hydrophytic Vegetation Present | [] Field Observations match map |

Job Number: **100309** City: **Thompson**

Wetland Data Point: W14 (wetland)

| 1 10,000 | /Site: C | Concord Resort, 1 | Γhompson, NY | | | Date: C | ctober 14, 2004 | |
|--|--|---|--|--|---|--|---------------------|--------------|
| | | er: Concord Ass | | | | County: | Sullivan | |
| Investic | ator: E | Ethan Stewart | • | | | State: | New York | |
| | | circumstances exis | st on the site? | | | Commu | nity ID: W14 | |
| [] Hav | e veget | tation, soils, or hyd | Irology been distu | ırbed? | | | D: Transect 14.1 | |
| | _ | a potential probler | | | | Plot ID: | Wetland | |
| Veget | | · · · · · · · · · · · · · · · · · · · | | | | | | |
| Domin | | nocios | | Commor | Nama | | % Cover | Indicator |
| Herbac | | pecies | | Commor | i ivaille | | /0 COVEI | muicator |
| X | D Ji S | Oryopteris atropalus uniper Polytrichum Sphagnum sp. | n moss | Woodferr | | | | OBL |
| <u>Tree</u> | 1 | helypteris novebo | racensis | Fern,Nev | / YORK | | | FAC |
| X | | suga canadensis agus grandifolia | | Hemlock, Beech | Eastern | | | FACU FAC+ |
| | В | Betula alba | | Birch,Wh | ite | | | FAC+ |
| % Spec | cies that | are OBL, FACW, | or FAC (except F | AC-): 50 | | Cowardin Cla | assification: | |
| Remark Hydro | | | | | | | | |
| • | | | | Primary Wetland | | cators | Secondary Hydrology | |
| | | Data (describe in | | [] Inundated | | | [] Oxidized root | |
| | | eam, Lake, or Tide | Gage | | in upper 12 inc | hes | [X] Water-stained | |
| | | ial Photograph | | [X] Water ma | rks | | [] Local soil surv | • |
| | [] Oth | er (describe in ren | narks) | [] Drift lines | | | [] FAC-Neutral to | |
| Field | Observa | ations: | | [] Sediment | • | | [] Other (explain | in remarks) |
| 1 1014 | | of Surface Water(ir | n)· 0 | [X] Drainage | patterns in wetla | ands | | |
| | | | | | | | | |
| | Deptilit | o Free Water in Pi | ι(III.). 4 | | | | | |
| | D = = 4 = 4 | - C-44I C-!I-/ | :- \- 0 | | | | | |
| | Depth to | o Saturated Soils(| in.): 0 | | | | | |
| Rema | · | o Saturated Soils(| in.): 0 | | | | | |
| Rema | · | o Saturated Soils(i | in.): 0 | | | | | |
| | arks | o Saturated Soils(i Matrix | in.): 0 Mottle / 2nd Mo | ottle | | Texture, | | |
| Soils | arks | Matrix Color | | ottle Abundance | Contrast | Structure, e | | |
| Soils Depth (in.) 4-0 | hrks Hor. | Matrix Color GLEY1 2.5/5PB | Mottle / 2nd Mo | Abundance | Contrast | Structure, e | | |
| Soils Depth (in.) | Hor. | Matrix Color | Mottle / 2nd Mo Color 5YR 5/8 | Abundance few | Contrast | Structure, e | | |
| Soils Depth (in.) 4-0 | hrks Hor. | Matrix Color GLEY1 2.5/5PB | Mottle / 2nd Mo | Abundance | Contrast | Structure, e | | |
| Depth (in.) 4-0 0-12 | Hor. O A C Soils I | Matrix Color GLEY1 2.5/5PB 10YR 3/1 | Mottle / 2nd Mo Color 5YR 5/8 | Abundance few common | | Structure, e | | |
| Depth (in.) 4-0 0-12 Hydric | Hor. O A C Soils II | Matrix Color GLEY1 2.5/5PB 10YR 3/1 | Mottle / 2nd Mo Color 5YR 5/8 | Abundance few common | Concretions | Structure, educompose Silt | d leaves | |
| Depth (in.) 4-0 0-12 Hydric [| O A C Soils II | Matrix Color GLEY1 2.5/5PB 10YR 3/1 Indicators ol Epipedon | Mottle / 2nd Mo Color 5YR 5/8 | Abundance few common [](| Concretions High Organic % | Structure, e decompose Silt | d leaves | |
| Depth (in.) 4-0 0-12 Hydrid | O A C Soils II Histoso | Matrix Color GLEY1 2.5/5PB 10YR 3/1 Indicators ol Epipedon c Odor | Mottle / 2nd Mo Color 5YR 5/8 5YR 5/1 | Abundance few common [](| Concretions High Organic % Organic Streakir | Structure, e decompose Silt | d leaves | |
| Depth (in.) 4-0 0-12 | O A C Soils II Histoso Histic E Sulfidio | Matrix Color GLEY1 2.5/5PB 10YR 3/1 Indicators ol Epipedon c Odor ole Aquatic Moist F | Mottle / 2nd Mo Color 5YR 5/8 5YR 5/1 | Abundance few common []([](| Concretions High Organic % Organic Streakir Listed on Local I | Structure, e decompose Silt in Surface Lay | d leaves ver | |
| Depth (in.) 4-0 0-12 | o Hor. O A C Soils II Histoso J Histoso Sulfidio Probab Reduci | Matrix Color GLEY1 2.5/5PB 10YR 3/1 Indicators ol Epipedon c Odor ole Aquatic Moist Fing Conditions | Mottle / 2nd Mo Color 5YR 5/8 5YR 5/1 | Abundance few common []([([(([(([([| Concretions High Organic % Organic Streakir Listed on Local I Listed on Nation | Structure, e decompose Silt in Surface Lay ng Hydric Soils Li al Hydric Soils | d leaves ver | |
| Depth (in.) 4-0 0-12 | o Hor. O A C Soils II Histoso J Histoso Sulfidio Probab Reduci | Matrix Color GLEY1 2.5/5PB 10YR 3/1 Indicators ol Epipedon c Odor ole Aquatic Moist F | Mottle / 2nd Mo Color 5YR 5/8 5YR 5/1 | Abundance few common []([([(([(([([| Concretions High Organic % Organic Streakir Listed on Local I | Structure, e decompose Silt in Surface Lay ng Hydric Soils Li al Hydric Soils | d leaves ver | |
| Depth (in.) 4-0 0-12 | O A C Soils II Histoso Histic E Sulfidio Probab Reduci Gleyeo | Matrix Color GLEY1 2.5/5PB 10YR 3/1 Indicators ol Epipedon c Odor ole Aquatic Moist Fing Conditions | Mottle / 2nd Mo Color 5YR 5/8 5YR 5/1 | Abundance few common []([[]([]([[]([[]([[]([[]([[]([[[]([| Concretions High Organic % Organic Streakir Listed on Local I Listed on Nation Other (explain ir | Structure, e decompose Silt in Surface Lay ng Hydric Soils Li al Hydric Soils | d leaves ver | |
| Depth (in.) 4-0 0-12 Hydric [[[[X [X] Unit N | O A C Soils II Histoso Histic E Sulfidid Probab Reduci Gleyeo | Matrix Color GLEY1 2.5/5PB 10YR 3/1 Indicators ol Epipedon c Odor ole Aquatic Moist Fing Conditions d or Low-Chroma C | Mottle / 2nd Mo Color 5YR 5/8 5YR 5/1 | Abundance few common []([])(| Concretions High Organic % Organic Streakir Listed on Local I Listed on Nation Other (explain in | Structure, e decompose Silt in Surface Lay ng Hydric Soils Li al Hydric Soils n remarks) | d leaves ver | |
| Depth (in.) 4-0 0-12 Hydrin [[[[X [X Unit N Drain: | o Hor. O A C Soils II] Histose] Sulfidie] Probab] Reduce] Gleyect lame: age Class | Matrix Color GLEY1 2.5/5PB 10YR 3/1 Indicators ol Epipedon c Odor ole Aquatic Moist Fing Conditions d or Low-Chroma C | Mottle / 2nd Mo Color 5YR 5/8 5YR 5/1 | Abundance few common []([])(| Concretions High Organic % Organic Streakir Listed on Local I Listed on Nation Other (explain ir | Structure, e decompose Silt in Surface Lay ng Hydric Soils Li al Hydric Soils n remarks) | d leaves ver | |
| Depth (in.) 4-0 0-12 Hydrin [[[[X [X Unit N Drain: | O A Hor. O A History I History I Probab I Reduct I Gleyect I Same: I S | Matrix Color GLEY1 2.5/5PB 10YR 3/1 Indicators ol Epipedon c Odor ole Aquatic Moist Fing Conditions d or Low-Chroma C | Mottle / 2nd Mo Color 5YR 5/8 5YR 5/1 | Abundance few common []([])(| Concretions High Organic % Organic Streakir Listed on Local I Listed on Nation Other (explain in | Structure, e decompose Silt in Surface Lay ng Hydric Soils Li al Hydric Soils n remarks) | d leaves ver | |
| Depth (in.) 4-0 0-12 Hydrin [[[[X [X Unit N Drain: Hard | A Hor. O A C Soils II Histose Sulfidia Probab Reduci Gleyect Jame: age Class Ran | Matrix Color GLEY1 2.5/5PB 10YR 3/1 Indicators ol Epipedon c Odor ole Aquatic Moist Fing Conditions d or Low-Chroma Coss: | Mottle / 2nd Mo Color 5YR 5/8 5YR 5/1 | Abundance few common []([])(| Concretions High Organic % Organic Streakir Listed on Local I Listed on Nation Other (explain in | Structure, e decompose Silt in Surface Lay ng Hydric Soils Li al Hydric Soils n remarks) | d leaves ver | |
| Depth (in.) 4-0 0-12 Hydrin [[[[X [X Unit N Drain: Hard | A Hor. O A C Soils II Histose Sulfidia Probab Reduci Gleyect Jame: age Class Ran | Matrix Color GLEY1 2.5/5PB 10YR 3/1 Indicators ol Epipedon c Odor ole Aquatic Moist Fing Conditions d or Low-Chroma C | Mottle / 2nd Mo Color 5YR 5/8 5YR 5/1 | Abundance few common []([])(| Concretions High Organic % Organic Streakir Listed on Local I Listed on Nation Other (explain in | Structure, e decompose Silt in Surface Lay ng Hydric Soils Li al Hydric Soils n remarks) | d leaves ver | |
| Depth (in.) 4-0 0-12 Hydrid [[[[[X [X Unit N Drain: Remark Hard | o Hor. O A C Soils II Histoso J Histoso Reduci Gleyect J Gl | Matrix Color GLEY1 2.5/5PB 10YR 3/1 Indicators ol Epipedon c Odor ole Aquatic Moist Fing Conditions d or Low-Chroma Coss: | Mottle / 2nd Mo Color 5YR 5/8 5YR 5/1 | Abundance few common []([([((1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1) | Concretions High Organic % Organic Streakir Listed on Local I Listed on Nation Other (explain in my: d Observations | Structure, e decompose Silt in Surface Lay ng Hydric Soils Li al Hydric Soils n remarks) match map | d leaves ver | |
| Depth (in.) 4-0 0-12 Hydrid [[[[[X] Unit N Drain: Remarl Hard Wetlan [X] H; | o Hor. O A C Soils II Histose J Sulfidie Probate Gleyed Jame: age Classes Pan nd De | Matrix Color GLEY1 2.5/5PB 10YR 3/1 Indicators ol Epipedon c Odor ole Aquatic Moist Fing Conditions d or Low-Chroma Coss: etermination tic Vegetation Pres | Mottle / 2nd Mo Color 5YR 5/8 5YR 5/1 | Abundance few common []([([((1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1) | Concretions High Organic % Organic Streakir Listed on Local I Listed on Nation Other (explain in | Structure, e decompose Silt in Surface Lay ng Hydric Soils Li al Hydric Soils n remarks) match map | d leaves ver | |
| Depth (in.) 4-0 0-12 Hydrid [[[[[[X] Unit N Drain: Remarl Hard Wetlan [X] H; [X] H; | o Hor. O A c Soils II Histose J Histose Gleyed J Reduci Gleyed J Reduci Gleyed J Reduci Gleyed J Reduci Hor. J Histose J Gleyed J Reduci J Gleyed J | Matrix Color GLEY1 2.5/5PB 10YR 3/1 Indicators ol Epipedon c Odor ole Aquatic Moist Fing Conditions d or Low-Chroma Coss: etermination tic Vegetation Presides Present | Mottle / 2nd Mo Color 5YR 5/8 5YR 5/1 Regime Colors | Abundance few common []([([((1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1) | Concretions High Organic % Organic Streakir Listed on Local I Listed on Nation Other (explain in my: d Observations | Structure, e decompose Silt in Surface Lay ng Hydric Soils Li al Hydric Soils n remarks) match map | d leaves ver | |
| Depth (in.) 4-0 0-12 Hydrid [[[[[[X] Unit N Drain: Remarl Hard Wetlan [X] H; [X] H; | o Hor. O A c Soils II J Histose J Histic E Sulfidie Probate Gleyect Jame: age Class Rage Class Rage And De ydrophy ydric So fetland F | Matrix Color GLEY1 2.5/5PB 10YR 3/1 Indicators ol Epipedon c Odor ole Aquatic Moist Fing Conditions d or Low-Chroma Coss: etermination tic Vegetation Pres | Mottle / 2nd Mo Color 5YR 5/8 5YR 5/1 Regime Colors | Abundance few common []([([((1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1) | Concretions High Organic % Organic Streakir Listed on Local I Listed on Nation Other (explain in my: d Observations | Structure, e decompose Silt in Surface Lay ng Hydric Soils Li al Hydric Soils n remarks) match map | d leaves ver | |

| Applicant/Owner: Investigator: Etha [X] Do normal circu [] Have vegetatio | Cord Resort, Thompson, NY Concord Associates, LP in Stewart umstances exist on the site? in, soils, or hydrology been disturbe otential problem area? | ed? | Date: October 14, 2004 County: Sullivan State: New York Community ID: W16 Station ID: Transect 16.1 Plot ID: Upland | |
|--|---|---|---|--------------------------------------|
| Dominant Spec | ies | Common Name | % Cover | Indicator |
| <u>Herbaceous</u> Spha | gnum sp. | | | |
| <u>Tree</u> X Fagu Pinus Betul | s grandifolia s strobus a alleghaniensis OBL, FACW, or FAC (except FAC | Beech Pine,Eastern White Birch,Yellow :-): 100 Con | wardin Classification: | FAC+ FACU FAC |
| Hydrology | Dui | mary Wetland Hydrology Indicator | s Secondary Hydrology | , Indiantora |
| [] Recorded Dat | ta (describe in remarks) , Lake, or Tide Gage Photograph describe in remarks) | [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | [] Oxidized root of [] Water-stained [] Local soil surve [] FAC-Neutral te [] Other (explain | channels leaves ey data est |
| Soils | | | | |
| Depth Hor. Ma | trix Mottle / 2nd Mottle | e Te | xture, | |
| (in.) Co | | | ructure, etc. | |
| | R 3/2 R 4/4 | | t Loam t Loam | |
| [] Reducing (| edon lor Aquatic Moist Regime | [] Concretions [] High Organic % in St [] Organic Streaking [] Listed on Local Hydri [] Listed on National Hy [] Other (explain in rem Taxonomy: [] Field Observations mate | ic Soils List ydric Soils List arks) | |
| • | | [] Field Observations mate | лі тар | |
| Remarks Hard Pan | | | | |
| Wetland Deter | mination | | | |
| [] Hydrophytic V [] Hydric Soils F [] Wetland Hydr Remarks Upland | | [] This Data Point is a \ | Wetland | |

Job Number: 100309 City: Thompson

Wetland Data Point: W16 (wetland)

| Applicant Investigate [X] Do not [] Have | downer formal veget area tion at Sous | Concord Resort, Ter: Concord Association Stewart circumstances existation, soils, or hydropolem pecies Ster umbellatus uniper Polytrichum sphagnum sp. | t on the site? | Common Name Aster,Flat-Top White Moss | (| Date: October 14, 2004 County: Sullivan State: New York Community ID: W16 Station ID: Transect 16.1 Plot ID: Wetland % Cover | Indicator FACW |
|---|--|--|--|--|-------------------------------|---|--------------------------------------|
| X | | cer rubrum agus grandifolia | | Maple,Red Beech | | | FAC FAC+ |
| % Specie Remarks | s that | | or FAC (except FAC- | | Cowa | ardin Classification: | TACT |
| Hydrold | oav | | Drin | por Watland Hudralagu Ing | diaatara | Sacandari, Undralasi | , Indicators |
| [] Rec [[Field Of D | orded] Stre] Aer] Oth oserva epth cepth tepth | Data (describe in page 2014) Data (describe in Tide ial Photograph er (describe in remations: Of Surface Water(in o Free Water in Pito Saturated Soils(in Page 2014) | emarks) [Gage [[arks) [] [] []]] [] []] [] [] []] [| nary Wetland Hydrology Ind] Inundated] Saturated in upper 12 in X] Water marks] Drift lines X] Sediment deposits X] Drainage patterns in we | nches | Secondary Hydrology [] Oxidized root of [X] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | channels leaves ey data est |
| Calla | | | | | | | |
| Soils | Hor | Motrix | Mottle / 2nd Mottle | | Tour | | |
| Depth (in.) | HOI. | Matrix Color | Mottle / 2nd Mottle Color A | bundance Contrast | Text Struc | cture, etc. | |
| 0-14 | 0 | GLEY2 2.5/5PB | | | | omposed leaves | |
| 14-24 | A/B | 7.5YR 5/3 | | ew ew | Silt L | .oam | |
| [] F [] S [] F [X] F | Histoso Histic I Sulfidio Probab Reduc | ndicators ol Epipedon c Odor ole Aquatic Moist R ing Conditions d or Low-Chroma C | | [] Concretions [X] High Organic % [] Organic Streak [] Listed on Loca [] Listed on Natio | king Il Hydric onal Hyd | Soils List ric Soils List | |
| Unit Na Drainag | | ss: | | Taxonomy: [] Field Observation | s match | map | |
| Remarks | | | | | | | |
| [X] Hyd [X] Hyd | rophy ric So land H | termination tic Vegetation Pres ils Present Hydrology Present | ent | [X] This Data Poin | nt is a We | etland | |

| Applicant/O Investigator [X] Do norm [] Have ve [X] Is the ar | c Concord Resort wner: Concord A c Ethan Stewart nal circumstances of egetation, soils, or hea a potential prob | exist on the site? nydrology been dis | turbed? | Count State: Comm Statio | October 14, 2004 ty: Sullivan : New York munity ID: W12 on ID: Transect 12.1 D: Upland | |
|--|---|--|---|-----------------------------------|--|---------------------------------------|
| Vegetation Dominant | OTI Species | | Common | Name | % Cover | Indicator |
| Tree X | Tsuga canadens Carpinus carolini Fagus grandifolia | ana 1 | Hemlock,E Hornbeam Beech | astern ,American | | FACU FAC FAC+ |
| Remarks | hat are OBL, FAC\ | | FAC-): 0 | Cowardin | Classification: | |
| | laple in Upland Are | a | | | | |
| [] [] [] [] [] [] [] [] [] [] | ded Data (describe Stream, Lake, or Ti Aerial Photograph Other (describe in r | de Gage remarks) r(in.): NA Pit(in.): >24 | [] Inundated [] Saturated i [] Water mark [] Drift lines [] Sediment o | | Secondary Hydrology [] Oxidized root [] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | channels leaves rey data est |
| Remarks Soils | or Motrix | Mottle / 2nd I | Aottlo | Toyturo | | |
| Depth H | or. Matrix Color | Mottle / 2nd I | Abundance | Contrast Texture, Structure, | , etc. | |
| 2-0 O | | | | · | osed leaves | |
| 0-5 A 5-18 B | | 5YR 3/3 5YR 4/6 | few few | Silt Silt | | |
| [] His [] His [] Sul [] Pro [] Rec [] Gle | tic Epipedon fidic Odor bable Aquatic Mois ducing Conditions yed or Low-Chrom | - | []H []O []Li []C Taxonon | • | List | |
| Drainage (| Class: | | [] Field | Observations match map | | |
| Remarks Redish So | oil | | | | | |
| Wetland | Determinatio | n | | | | |
| [] Hydric | ohytic Vegetation P Soils Present nd Hydrology Prese | | ודן] | nis Data Point is a Wetland | d | |

Job Number: **100309**City: **Thompson**

Wetland Data Point: W12 (wetland)

| Applicant/Ow Investigator: [X] Do norma [] Have veg | Species | ociates, LP st on the site? rology been disturbe n area? | ed? Common Na Clubmoss,Ti | ame | Date: October 14, 2004 County: Sullivan State: New York Community ID: W12 Station ID: Transect 12.1 Plot ID: Wetland % Cover | Indicator FACU |
|--|---|--|--|---|---|--|
| Tree X % Species th Remarks | Acer rubrum Betula alleghaniens Fagus grandifolia at are OBL, FACW, | | Maple,Red Birch,Yellow Beech | Cow | rardin Classification: | FAC FAC FAC+ |
| [] Si [] Ai [] O Field Obser Depth Depth | ed Data (describe in tream, Lake, or Tide erial Photograph ther (describe in ren | remarks) Gage narks) 1.): 0 t(in.): 0 | [] Inundated [X] Saturated in [X] Water marks [] Drift lines [] Sediment de | | Secondary Hydrolog [] Oxidized root [X] Water-stained [] Local soil sun [] FAC-Neutral t [] Other (explain | channels d leaves vey data test |
| Soils | | | | | | |
| | r. Matrix Color GLEY2 2.5/5PB 5YR 4/4 5YR 4/6 | Mottle / 2nd Mottle Color 5YR 3/4 5YR 5/8 | | ontrast Stru | ture, acture, etc. composed leaves | |
| Hydric Soils [] Histo [] Histo [] Sulfic [X] Prob [X] Redu | s <i>Indicators</i> osol c Epipedon | Regime | [] Con [] High [] Org [] Liste [] Liste | ocretions In Organic % in Sur In Organic % in In Income In Organic % in Organic % in Income In Organic % in | : Soils List dric Soils List | |
| Unit Name: Drainage C | lass: | | Taxonomy [] Field C | : Observations match | n map | |
| Remarks | | | | | | |
| [X] Hydroph [X] Hydric S | Determination nytic Vegetation Pres Soils Present Hydrology Present | sent | [X] This | s Data Point is a W | /etland | |

| | | oncord Resort | , Thompson, NY | | | Date: | October 14, 2004 | |
|--|--|---|----------------------------------|---|---|--|-----------------------------------|--------------|
| Investiga | t/Owne | r: Concord A | ssociates, LP | | | County | : Sullivan | |
| mvoonga | tor: Et | than Stewart | | | | State: | New York | |
| [X] Do no | ormal c | ircumstances e | xist on the site? | | | Comm | unity ID: W13 | |
| [] Have | vegeta | ation, soils, or h | ydrology been distur | bed? | | Station | ID: Transect 13.1 | |
| [] Is the | area a | a potential probl | em area? | | | Plot ID | : Upland | |
| Vegetat | tion | | | | | | | |
| Dominar | | ecies | | Commor | Name | | % Cover | Indicator |
| Herbace | ous | | | | | | | |
| X T ==== | | yopteris interm hyrium pycnoca | | | ,Evergreen ow-Leaf Lady | | | FACU FAC |
| <u>Tree</u> X | Ac | er rubrum | | Maple,Re | hd | | | FAC |
| ^ | | agus grandifolia | | Beech | | | | FAC+ |
| | | suga canadensi | | Hemlock, | Eastern | | | FACU |
| | | arpinus carolinia | | | n,American | | | FAC |
| 0/ Cnasis | | etula alleghanie | | Birch, Yell | OW | Causardia C | Noosification. | FAC |
| | | are OBL, FACV | V, or FAC (except FA | AC-): 50 | | Cowardin C | Classification: | |
| Remarks | | | | | | | | |
| Hydrold | | | | Primary Wetland | Hydrology Indi | cators | Secondary Hydrology | y Indicators |
| | | Data (describe | | [] Inundated | | | [] Oxidized root | channels |
| [|] Strea | am, Lake, or Ti | de Gage | [] Saturated | in upper 12 inc | hes | [] Water-stained | leaves |
| [|] Aeria | al Photograph | | [] Water ma | rks | | [] Local soil surv | vey data |
| [|] Othe | er (describe in r | emarks) | [] Drift lines | | | [] FAC-Neutral to | est |
| Field OI | hoorvat | tions: | | [] Sediment | deposits | | [] Other (explain | in remarks) |
| | | | -/: \- NIA | [] Drainage | patterns in wetla | ands | | |
| | • | Surface Water | ` ' | | | | | |
| | | Free Water in | | | | | | |
| D | epth to | Saturated Soil | s(in.): >24 | | | | | |
| Remark | (S | | | | | | | |
| | | | | | | | | |
| Soils | | | | | | | | |
| Soils Depth | Hor | Matrix | Mottle / 2nd Mo | ttle | | Texture | | |
| Depth | Hor. | Matrix Color | Mottle / 2nd Mo | | Contrast | Texture, Structure. | etc. | |
| | | | Mottle / 2nd Mo | ttle Abundance | Contrast | Structure, | etc. | |
| Depth (in.) | 0 | Color | | | Contrast | Structure, | sed leaves | |
| Depth (in.) 1-0 0-16 | O A/B | Color 5YR 3/1 5YR 4/4 | Color | Abundance | Contrast | Structure, decompos | sed leaves | |
| Depth (in.) 1-0 0-16 Hydric \$1.00 | O s A/B s | Color 5YR 3/1 5YR 4/4 dicators | Color | Abundance few | | Structure, decompos | sed leaves | |
| Depth (in.) 1-0 0-16 Hydric S | O A/B Soils In | Color 5YR 3/1 5YR 4/4 dicators | Color | Abundance few | Concretions | Structure, decompos Loamy Sai | sed leaves nd | |
| Depth (in.) 1-0 0-16 Hydric (| O A/B Soils In Histosol | Color 5YR 3/1 5YR 4/4 adicators I pipedon | Color | Abundance few | Concretions High Organic % | Structure, decompos Loamy Sar in Surface La | sed leaves nd | |
| Depth (in.) 1-0 0-16 Hydric (| O A/B Soils In | Color 5YR 3/1 5YR 4/4 adicators I pipedon | Color | Abundance few [](| Concretions High Organic % Organic Streakir | Structure, decompos Loamy Sar in Surface Lang | sed leaves and | |
| Depth (in.) 1-0 0-16 Hydric 3 [] H [] S | O A/B Soils In Histosol Histic E Sulfidic | Color 5YR 3/1 5YR 4/4 adicators I pipedon | Color 5YR 3/2 | Abundance few [](| Concretions High Organic % | Structure, decompos Loamy Sar in Surface Lang | sed leaves and | |
| Depth (in.) 1-0 0-16 Hydric 3 [] F [] F [] F [] F | O A/B Soils In Histosol Histic E Sulfidic | Color 5YR 3/1 5YR 4/4 adicators I pipedon Odor | Color 5YR 3/2 | Abundance few []([] | Concretions High Organic % Organic Streakir | Structure, decompos Loamy Sar in Surface Lang Hydric Soils I | sed leaves and ayer _ist | |
| Depth (in.) 1-0 0-16 Hydric 3 [] F [] F [] F [] F [] F | O : A/B Soils In Histosol Histic E Sulfidic Probabl Reducir | Color 5YR 3/1 5YR 4/4 dicators I pipedon Odor le Aquatic Mois | Color 5YR 3/2 t Regime | Abundance few []([]) | Concretions High Organic % Organic Streakin Listed on Local | Structure, decompos Loamy Sar in Surface Lang Hydric Soils I al Hydric Soi | sed leaves and ayer _ist | |
| Depth (in.) 1-0 0-16 Hydric 3 [] F [] F [] F [] F [] F | O A/B Soils In Histosol Histic E Sulfidic Probabl Reducir Gleyed | Color 5YR 3/1 5YR 4/4 Idicators I pipedon Odor le Aquatic Moising Conditions | Color 5YR 3/2 t Regime | Abundance few []([]) | Concretions High Organic % Organic Streakir Listed on Local Listed on Nation Other (explain ir | Structure, decompos Loamy Sar in Surface Lang Hydric Soils I al Hydric Soi | sed leaves and ayer _ist | |
| Depth (in.) 1-0 0-16 Hydric S [] H [] S [] F [] G | O : A/B : Soils In Histosol Histic E Sulfidic Probabl Reducir Gleyed me: | Color 5YR 3/1 5YR 4/4 dicators I pipedon Odor le Aquatic Mois ng Conditions or Low-Chroma | Color 5YR 3/2 t Regime | Abundance few []([])([])([])([])(Taxono | Concretions High Organic % Organic Streakir Listed on Local Listed on Nation Other (explain ir | Structure, decompos Loamy Sar in Surface Lang Hydric Soils I al Hydric Soi in remarks) | sed leaves and ayer _ist | |
| Depth (in.) 1-0 0-16 Hydric S [] H [] S [] F [] G Unit Na Drainag Remarks | O A/B Soils In Histosol Histic E Sulfidic Probabl Reducir Gleyed Ime: ge Class | Color 5YR 3/1 5YR 4/4 Idicators I pipedon Odor le Aquatic Moising Conditions or Low-Chroma | Color 5YR 3/2 t Regime | Abundance few []([])([])([])([])(Taxono | Concretions High Organic % Organic Streakir Listed on Local Listed on Nation Other (explain ir | Structure, decompos Loamy Sar in Surface Lang Hydric Soils I al Hydric Soi in remarks) | sed leaves and ayer _ist | |
| Depth (in.) 1-0 0-16 Hydric S [] H [] S [] F [] G Unit Na Drainag Remarks No cha | O A/B Soils In Histosol Histic E Sulfidic Probabl Reducir Gleyed me: ge Class | Color 5YR 3/1 5YR 4/4 dicators I pipedon Odor le Aquatic Mois ng Conditions or Low-Chroma | Color 5YR 3/2 t Regime a Colors | Abundance few []([])([])([])([])(Taxono | Concretions High Organic % Organic Streakir Listed on Local Listed on Nation Other (explain ir | Structure, decompos Loamy Sar in Surface Lang Hydric Soils I al Hydric Soi in remarks) | sed leaves and ayer _ist | |
| Depth (in.) 1-0 0-16 Hydric S [] H [] S [] F [] G Unit Na Drainag Remarks No cha | O A/B Soils In Histosol Histic E Sulfidic Probabl Reducir Gleyed Ime: ge Classing to d Det | Color 5YR 3/1 5YR 4/4 Idicators I pipedon Odor Ie Aquatic Mois Ing Conditions or Low-Chroma | Color 5YR 3/2 t Regime a Colors | Abundance few []([])([])([])(Taxono [] Fiel | Concretions High Organic % Organic Streakir Listed on Local Listed on Nation Other (explain ir | Structure, decompos Loamy Sar in Surface Lang Hydric Soils I al Hydric Soi in remarks) | sed leaves and ayer _ist | |
| Depth (in.) 1-0 0-16 Hydric S [] H [] S [] F [] G Unit Na Drainag Remarks No cha Wetland | O A/B Soils In Histosol Histic E Sulfidic Probabl Reducir Gleyed Ime: ge Class ange to d Det | Color 5YR 3/1 5YR 4/4 Idicators I pipedon Odor Ie Aquatic Mois Ing Conditions or Low-Chroma s: B horizon termination | Color 5YR 3/2 t Regime a Colors | Abundance few []([])([])([])(Taxono [] Fiel | Concretions High Organic % Organic Streakin Listed on Local Listed on Nation Other (explain in my: d Observations | Structure, decompos Loamy Sar in Surface Lang Hydric Soils I al Hydric Soi in remarks) | sed leaves and ayer _ist | |
| Depth (in.) 1-0 0-16 Hydric 3 [] H [] S [] F [] G Unit Na Drainag Remarks No cha Wetland [] Hyd [] Hyd [] Hyd | O A/B Soils In Histosol Histic E Sulfidic Probabl Reducir Gleyed Ime: ge Class Inge to d Det Hric Soil | Color 5YR 3/1 5YR 4/4 Idicators I pipedon Odor Ie Aquatic Mois Ing Conditions or Low-Chroma s: B horizon termination Ic Vegetation P | Color 5YR 3/2 t Regime a Colors | Abundance few []([])([])([])(Taxono [] Fiel | Concretions High Organic % Organic Streakin Listed on Local Listed on Nation Other (explain in my: d Observations | Structure, decompos Loamy Sar in Surface Lang Hydric Soils I al Hydric Soi in remarks) | sed leaves and ayer _ist | |
| Depth (in.) 1-0 0-16 Hydric 3 [] H [] S [] F [] G Unit Na Drainag Remarks No cha Wetland [] Hyd [] Hyd [] Hyd | O A/B Soils In Histosol Histic E Sulfidic Probabl Reducir Gleyed Ime: ge Class In Indiano Det Iric Soil Iric Soil Itland Hy | Color 5YR 3/1 5YR 4/4 Idicators I pipedon Odor Ie Aquatic Mois Ing Conditions or Low-Chroma s: B horizon termination ic Vegetation P Is Present | Color 5YR 3/2 t Regime a Colors | Abundance few []([])([])([])(Taxono [] Fiel | Concretions High Organic % Organic Streakin Listed on Local Listed on Nation Other (explain in my: d Observations | Structure, decompos Loamy Sar in Surface Lang Hydric Soils I al Hydric Soi in remarks) | sed leaves and ayer _ist | |
| Depth (in.) 1-0 0-16 Hydric S [] H [] S [] F [] G Unit Na Drainag Remarks No cha Wetland [] Hyd [] Hyd [] Wet | O A/B Soils In Histosol Histic E Sulfidic Probabl Reducir Gleyed Ime: ge Class In Indiano Det Indiano Hy India | Color 5YR 3/1 5YR 4/4 Idicators I pipedon Odor Ie Aquatic Mois Ing Conditions or Low-Chroma s: B horizon termination ic Vegetation P Is Present | Color 5YR 3/2 t Regime a Colors | Abundance few []([])([])([])(Taxono [] Fiel | Concretions High Organic % Organic Streakin Listed on Local Listed on Nation Other (explain in my: d Observations | Structure, decompos Loamy Sar in Surface Lang Hydric Soils I al Hydric Soi in remarks) | sed leaves and ayer _ist | |

Job Number: 100309 City: Thompson

Wetland Data Point: W13 (wetland)

| Applicant/Owner: Conclinvestigator: Ethan Sto [X] Do normal circumsta [] Have vegetation, so [] Is the area a potenti | ewart inces exist on the site? Is, or hydrology been disturbed | d? | Date: October 14, 2004 County: Sullivan State: New York Community ID: W13 Station ID: Transect 13.1 Plot ID: Wetland | |
|--|--|---|---|----------------------|
| Vegetation Dominant Species | | Common Name | % Cover Inc | dicator |
| Herbaceous | | Common Name | 70 COVE1 1110 | uicatoi |
| X Dryopteris | intermedia pycnocarpon | Woodfern,Evergreen Fern,Narrow-Leaf Lady | FA FA | vC vCn |
| X Acer rubru Fagus gra Tsuga car Carpinus d Betula alle | ndifolia | Maple,Red Beech Hemlock,Eastern Hornbeam,American Birch,Yellow -): 50 Cov | | NC+ NCU NC |
| Hydrology | Prir | mary Wetland Hydrology Indicator | s Secondary Hydrology Inc | dicators |
| [] Recorded Data (de | escribe in remarks) e, or Tide Gage graph [ibe in remarks) [Water(in.): 0 [fater in Pit(in.): 0 | [X] Inundated [X] Saturated in upper 12 inches [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in wetlands | [] Oxidized root char [] Water-stained leav [] Local soil survey of [] FAC-Neutral test [] Other (explain in r | nnels ves lata |
| Remarks Riverine Area | | | | |
| Soils | | | | |
| Depth Hor. Matrix (in.) Color | | Abundance Contrast Str | exture, ructure, etc. | |
| 1-0 O GLEY2 0-14 A 7.5YR 4 | | | ecomposed leaves ne Sand | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquat [X] Reducing Cond [] Gleyed or Low- | ic Moist Regime itions | [] Concretions [] High Organic % in St [X] Organic Streaking [] Listed on Local Hydri [] Listed on National Hy [] Other (explain in rem | ic Soils List ydric Soils List | |
| Unit Name: | | Taxonomy: | ch man | |
| Drainage Class: Remarks | | [] Field Observations mate | л шар | |
| Very Sandy Wetland Determin | nation | | | |
| [X] Hydrophytic Veget [X] Hydric Soils Prese [X] Wetland Hydrology Remarks | ation Present nt | [X] This Data Point is a \ | Wetland | |

| Project/Site: Concord Resort, Thompson Applicant/Owner: Concord Associates, LI Investigator: Ethan Stewart [X] Do normal circumstances exist on the sit [] Have vegetation, soils, or hydrology bee [] Is the area a potential problem area? | e? Condisturbed? St | ate: October 14, 2004 bunty: Sullivan ate: New York bummunity ID: W17 ation ID: Transect 17.1 but ID: Upland (north) |
|---|---|--|
| Vegetation Dominant Species | Common Name | % Cover Indicator |
| Herbaceous Sphagnum sp. | | |
| Tree X Tsuga canadensis Pinus strobus Fagus grandifolia | Hemlock,Eastern Pine,Eastern White Beech | FACU FACU FAC+ |
| % Species that are OBL, FACW, or FAC (ex Remarks | cept FAC-): 0 Coward | din Classification: |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): NA Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicators [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | Secondary Hydrology Indicators [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| | 2nd Mottle Textur | • |
| (in.) Color Color 2-0 O 5YR 3/1 0-6 A 5YR 2.5/2 5YR 2.5/ 6-14 B 7.5YR 4/4 7.5YR 3/ | decor 1 few Silt | ure, etc. mposed leaves |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: | [] Concretions [] High Organic % in Surfa [] Organic Streaking [] Listed on Local Hydric S [] Listed on National Hydric [] Other (explain in remark Taxonomy: [] Field Observations match n | oils List c Soils List s) |
| Remarks | | |
| Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a Wet | land |

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been dis [] Is the area a potential problem area? | Co Sta Co cuturbed? Sta | ate: October 14, 2004 bunty: Sullivan ate: New York bummunity ID: W17 ation ID: Transect 17.2 bt ID: Upland (south) |
|---|--|--|
| Vegetation Dominant Species | Common Name | % Cover Indicator |
| Herbaceous Sphagnum sp. | | |
| Tree X Tsuga canadensis Pinus strobus Fagus grandifolia | Hemlock,Eastern Pine,Eastern White Beech | FACU FACU FAC+ |
| % Species that are OBL, FACW, or FAC (except Remarks | FAC-): 0 Coward | din Classification: |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): NA Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicators [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | Secondary Hydrology Indicators [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| Depth (in.) Hor. Matrix Mottle / 2nd N Color 2-0 O 5YR 3/1 | Abundance Contrast Structu | re, ure, etc. nposed leaves |
| 0-3 A 2.5YR 4/3 3-15 B 5YR 4/6 5YR 3/3 | Silt few Silt | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: | [] Concretions [] High Organic % in Surfac [] Organic Streaking [] Listed on Local Hydric So [] Listed on National Hydric [] Other (explain in remarks Taxonomy: [] Field Observations match m | oils List c Soils List s) |
| Drainage Class: Remarks | [] Field Observations match m | пар |
| Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks | [] This Data Point is a Wetl | land |

City: **Thompson**Wetland Data Point: **W17 (wetland)**

Job Number: 100309

| Project/Stric: Concord Resort, Thompson, NY | Applica | /Sita· (| Concord Resort T | homnson NV | | | Date: Oct | oher 14 2004 | |
|--|---|---|--|---|---|---|---|-------------------|-------------|
| Investigator: Ethan Stewart | | | | • | | | | | |
| I Normal procurs are exist on the site? Community ID: W47 | Investic | | | 70iato0, 2 i | | | • | | |
| Is the area a potential problem area? | | | | t on the site? | | | | | |
| I see a potential problem area? Plot ID: Wetland | | | | | ? | | | | |
| Spingarum sp. Spingarum sp | | _ | · | | | | Plot ID: W | etland | |
| Spingarum sp. Spingarum sp | Veget | ation | | | | | | | |
| Sphagnum sp. FACU Pine, Eastern White FACU | Domin | ant S | pecies | | Common Na | ame | | % Cover | Indicator |
| Testure | <u>Herbac</u> | | No. 1 | | | | | | |
| X Fouga canadensis Pinus strobus Pinus Eastern White Beech FACU PROUS Propose Pagus grandifolia Pagus | Tree | S | sphagnum sp. | | | | | | |
| Pinus strobus Requis grandifolio % Species that are OBL, FACW, or FAC (except FAC-): 0 Cowardin Classification: Remarks Vegetation assumed wetland, as hydric soils and wetland hydrology are present and in this region hemlock and Hydrology Romon to grow on hummocks in wetlands. Pinus Wetland Hydrology Indicators [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) [] Other (describe in remarks) [] Sediment deposits [] Other (describe in remarks) [] Sediment deposits [] Other (explain in remarks) | | T | suga canadensis | | Hemlock,Eas | stern | | | FACU |
| 96 Species that are OBL, FACW, or FAC (except FAC-): 0 Cowardin Classification: Remarks Vegetation assumed wetland, as hydric soils and wetland hydrology are present and in this region hemlock and Hydrology or known to grow on hummocks in wetlands. Vegetation assumed wetland, as hydric soils and wetland hydrology Indicators [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [X] Saturated in upper 12 inches [X] Water stained leaves [] Aerial Photograph [X] Water marks [] Local soil survey data [] Other (describe in remarks) [] Drift lines [] Fact-Neutral test [] Sediment deposits [] Other (explain in remarks) Depth of Surface Water(in.): NA Depth to Saturated Soils(in.): 4 Remarks Soils Depth Hor. Matrix Mottle / 2nd Mottle Texture, Structure, etc. (in.) Color Color Abundance Contrast Structure, etc. 4-0 O GLEY 22 2/5/5/PB decomposed leaves 0-1 E 10 YR 6/1 Sand 1-12 A/B 5 YR 5/1 5 YR 6/8 many Silt 1-12 A/B 5 YR 5/1 5 YR 6/8 many Silt 1-15 Syn A/1 few Hydric Soils Indicators Histosol | | | | | | | | | |
| Remarks Vegetation assumed wetland, as hydric soils and wetland hydrology are present and in this region hemlock and Hydrology gre known to grow on hummocks in wetlands. Prinnary Wetland Hydrology Indicators Secondary Hydrology Indicators Prinnary Wetland Hydrology Indicators Secondary Hydrology Indicators Indica | 0/ Cna | | | or FAC (overat FAC) | | | awardin Class | ification | FAC+ |
| Vegetation assumed wetland, as hydric soils and wetlands hydrology are present and in this region hemlock and Hydrology indicators Filmary Wetlands Filmary Ketlands Filmary K | | | are OBL, FACVV, | or FAC (except FAC-) | U | C | owardin Class | sincation. | |
| Hydrio piga gre known to grow on hummocks in wetlands. Primary Wetland Hydrology Indicators Primary Wetland Hydrology Present Primary Prim | | | ssumed wetland a | s hydric soils and wat | land hydrology | are present an | d in this region | hemlock and | |
| [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Arain Photograph [] Arain Photograph [] Oxidized root channels [] Arain Photograph [] Arain Photograph [] Carlai Photograph [] Other (describe in remarks) [] Drift lines [] Drift lines [] Local soil survey data [] Drift lines [] FAC-Neutral test [] Sediment deposits [] Other (explain in remarks) Depth of Surface Water in Pit(in.): NA Depth to Free Water in Pit(in.): NA Depth to Saturated Soils(in.): 4 Remarks Soils Depth Hor. Matrix Mottle / 2nd Mottle | - white | pine are | e known to grow or | hummocks in wetlan | ds. | • | | THEITHOCK AND | |
| [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Aerial Photograph [] Aerial Photograph [] Other (describe in remarks) [] Drift lines [] Fact-Neutral test [] Sediment deposits [] Other (explain in remarks) [] Depth of Surface Water (in.): NA Depth of Surface Water in Pit(fin.): NA Depth to Saturated Soils(in.): 4 Remarks Soils Depth Hor. Matrix Mottle / 2nd Mottle Team of Color Abundance Contrast Structure, etc. 4-0 O GLEY 2.5/5PB decomposed leaves 0-1 E 10YR 6/1 Sand 5YR 4/1 few Hydric Soils Indicators [] Histosol [] Driganic Streaking [] United on National Hydric Soils List [X] Reducing Conditions [] Listed on National Hydric Soils List [X] Reducing Conditions [] Field Observations match map Remarks Wetland Determination [X] Hydrophytic Vegetation Present [X] This Data Point is a Wetland X] Hydrophytic Vegetation Present X] Wetland Hydrology Present | | | | | | drology Indicat | ors Se | condary Hydrology | Indicators |
| [] Aerial Photograph [] Other (describe in remarks) [] Drift lines [] FAC-Neutral test [] Sediment deposits [] Other (explain in remarks) [] Sediment deposits [] Other (explain in remarks) [] Sediment deposits [] Other (explain in remarks) [] Other (explain in remarks | | | • | , . | • | | | | |
| Field Observations: Depth of Surface Water(in.): NA Depth to Free Water in Pit(in.): NA Depth to Saturated Soils(in.): 4 Remarks Soils Depth Hor. Matrix Mottle / 2nd Mottle Tolor Abundance Contrast Structure, etc. 4-0 O GLEY2 2.5/5PB decomposed leaves 4-0 O GLEY2 2.5/5PB decomposed leaves 4-1 12 A/B 5YR 5/1 5YR 6/8 many Silt Hydric Soils Indicators [] Hilstosol [] Concretions [] Hilstosol [] Hilstosol [] Hilsto Godor [] Organic Streaking [] Justed on Local Hydric Soils List [X] Reducing Conditions [] Justed on Local Hydric Soils List [X] Gleyed or Low-Chroma Colors [] Listed on National Hydric Soils List [X] Gleyed or Low-Chroma Colors [] Field Observations match map Remarks Wetland Determination [X] Hydrochytic Vegetation Present [X] This Data Point is a Wetland [X] Hydric Soils Present [X] Wetland Hydric Ogy Present | | | | • | - | upper 12 inches | | | |
| Field Observations: Depth of Surface Water (in.): NA Depth to Free Water in Pit(in.): NA Depth to Saturated Soils (in.): 4 Remarks Soils Depth Hor. Matrix Mottle / 2nd Mottle Tolor Abundance Contrast Structure, etc. (in.) Color Abundance Contrast Structure, etc. 4-0 O GLEY2 2.5/5PB decomposed leaves 0-1 E 10YR 6/1 Sand 1-12 A/B 5YR 5/1 5YR 6/8 many Silt Hydric Soils Indicators [] Histosol [] Concretions [] Histosol [] Probable Aquatic Moist Regime [] Constraint Streaking [] Probable Aquatic Moist Regime [] Listed on National Hydric Soils List [X] Reducing Conditions [] Listed on National Hydric Soils List [X] Gleyed or Low-Chroma Colors [] Field Observations match map Wetland Determination [X] Hydrophytic Vegetation Present [X] This Data Point is a Wetland [X] Hydric Soils Present [X] Wetland Hydricology Present | | | 0 . | • | - | | | | • |
| Depth of Surface Water (in.): NA Depth to Free Water in Pitt(in.): NA Depth to Saturated Soils (in.): 4 Remarks Soils Depth Hor. Matrix Mottle / 2nd Mottle Texture, Structure, etc. Structure, etc. Structure, etc. Hor. Sand Sand Sand Syr. S | | [] Oth | er (describe in rem | - | • | | | • • | |
| Depth to Surface Water(in.): NA Depth to Free Water in Pit(in.): NA Depth to Saturated Soils(in.): 4 Remarks Soils Depth Hor. Matrix | Field (| Observa | ations: | • | | | | Under (explain | in remarks) |
| Depth to Saturated Soils(in.): 4 Remarks Soils Depth Hor. Matrix Mottle / 2nd Mottle Texture, (in.) Color Color Abundance Contrast Structure, etc. 4-0 O GLEY 2.5/5PB decomposed leaves 0-1 E 10YR 6/1 Sand 1-12 A/B 5YR 5/1 5YR 6/8 many Silt Hydric Soils Indicators [] Histic Epipedon [] High Organic % in Surface Layer [] Sulfidic Odor [] Organic Streaking [] Probable Aquatic Moist Regime [] Listed on Local Hydric Soils List [X] Reducing Conditions [] Other (explain in remarks) Unit Name: Taxonomy: Drainage Class: [] Field Observations match map Remarks Wetland Determination [X] Hydric Soils Present [X] This Data Point is a Wetland X] Hydric Soils Present [X] Wetland Hydrology Present X] Wetland Hydrology Present | | Depth o | of Surface Water(in |): NA | .] Drainage pau | iems in welland | 18 | | |
| Soils Depth Hor. Matrix Mottle 2nd Mottle Texture, Structure, etc. Color Abundance Contrast Structure, etc. Color Color Structure, etc. Color Color Structure, etc. Color Color Structure, etc. Color Color Structure, etc. Color Color Structure, etc. Color Color Structure, etc. Color Color Structure, etc. Color | | Depth to | o Free Water in Pit | (in.): NA | | | | | |
| Soils Depth Hor. Matrix Mottle / 2nd Mottle Texture, (in.) Color Abundance Contrast Structure, etc. 4-0 O GLEY2 2.5/5PB decomposed leaves 0-1 E 10YR 6/1 Sand 1-12 A/B 5YR 5/1 5YR 6/8 many Silt Hydric Soils Indicators [] Histosol [] Concretions [] Histic Epipedon [] High Organic % in Surface Layer [] Sulfidic Odor [] Organic Streaking [] Probable Aquatic Moist Regime [] Listed on Local Hydric Soils List [X] Reducing Conditions [] Listed on National Hydric Soils List [X] Gleyed or Low-Chroma Colors [] Other (explain in remarks) Unit Name: Taxonomy: Drainage Class: [] Field Observations match map Remarks Wetland Determination [X] Hydric Soils Present [X] This Data Point is a Wetland [X] Hydric Soils Present [X] This Data Point is a Wetland Hydrology Present | | Depth to | o Saturated Soils(i | n.): 4 | | | | | |
| Soils Depth Hor. Matrix Mottle / 2nd Mottle Texture, (in.) Color Abundance Contrast Structure, etc. 4-0 O GLEY2 2.5/5PB decomposed leaves 0-1 E 10YR 6/1 Sand 1-12 A/B 5YR 5/1 5YR 6/8 many Silt Hydric Soils Indicators [] Histosol [] Concretions [] Histic Epipedon [] High Organic % in Surface Layer [] Sulfidic Odor [] Organic Streaking [] Probable Aquatic Moist Regime [] Listed on Local Hydric Soils List [X] Reducing Conditions [] Listed on National Hydric Soils List [X] Gleyed or Low-Chroma Colors [] Other (explain in remarks) Unit Name: Taxonomy: Drainage Class: [] Field Observations match map Remarks Wetland Determination [X] Hydric Soils Present [X] This Data Point is a Wetland [X] Hydric Soils Present [X] This Data Point is a Wetland Hydrology Present | Rema | ırks | | | | | | | |
| Depth (in.) | | | | | | | | | |
| (in.) Color Color Abundance Contrast Structure, etc. 4-0 O GLEY2 2.5/5PB decomposed leaves 0-1 E 10YR 6/1 Sand 1-12 A/B 5YR 5/1 5YR 6/8 many Silt Hydric Soils Indicators [] Histosol [] Concretions [] Histic Epipedon [] High Organic % in Surface Layer [] Sulfidic Odor [] Organic Streaking [] Probable Aquatic Moist Regime [] Listed on Local Hydric Soils List [X] Reducing Conditions [] Unit Name: Taxonomy: Drainage Class: [] Field Observations match map Remarks Wetland Determination [X] Hydrophytic Vegetation Present [X] This Data Point is a Wetland [X] Hydric Soils Present [X] Wetland Hydrology Present | Soils | | | | | | | | |
| 4-0 O GLEY2 2.5/5PB 0-1 E 10YR 6/1 Sand 1-12 A/B 5YR 5/1 5YR 6/8 many Silt Hydric Soils Indicators [] Histosol | Depth | Hor. | Matrix | Mottle / 2nd Mottle | | | Texture, | | |
| 0-1 E 10YR 6/1 1-12 A/B 5YR 5/1 5YR 6/8 many 5YR 4/1 few Hydric Soils Indicators [] Histosol | (in) | | | | | ((| | | |
| 1-12 A/B 5YR 5/1 5YR 6/8 many few Silt Hydric Soils Indicators [] Histosol | | | | | oundance C | | | | |
| Hydric Soils Indicators [] Histosol | 4-0 | | GLEY2 2.5/5PB | | oundance C | | decomposed I | eaves | |
| Hydric Soils Indicators [] Histosol [] Concretions [] Histic Epipedon [] High Organic % in Surface Layer [] Sulfidic Odor [] Organic Streaking [] Listed on Local Hydric Soils List [X] Reducing Conditions [] Listed on National Hydric Soils List [X] Gleyed or Low-Chroma Colors [] Other (explain in remarks) Unit Name: | 4-0 0-1 | Е | GLEY2 2.5/5PB 10YR 6/1 | Color Al | | S | decomposed l Sand | eaves | |
| [] Histosol | 4-0 0-1 | Е | GLEY2 2.5/5PB 10YR 6/1 | Color Al 5YR 6/8 m | nany | S | decomposed l Sand | eaves | |
| [] Histic Epipedon | 4-0 0-1 1-12 | E A/B | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 | Color Al 5YR 6/8 m | nany | S | decomposed l Sand | eaves | |
| [] Sulfidic Odor | 4-0 0-1 1-12 Hydric | E A/B Soils li | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 | Color Al 5YR 6/8 m | nany ew | \$ | decomposed l Sand | eaves | |
| [] Probable Aquatic Moist Regime [] Listed on Local Hydric Soils List [X] Reducing Conditions [] Listed on National Hydric Soils List [X] Gleyed or Low-Chroma Colors [] Other (explain in remarks) Unit Name: Taxonomy: Drainage Class: [] Field Observations match map Remarks Wetland Determination [X] Hydrophytic Vegetation Present [X] This Data Point is a Wetland [X] Hydric Soils Present [X] Wetland Hydrology Present | 4-0 0-1 1-12 Hydrid | E A/B c Soils li | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 indicators | Color Al 5YR 6/8 m | nany ew []Con | cretions | decomposed I Sand Silt | | |
| [X] Reducing Conditions [] Listed on National Hydric Soils List [X] Gleyed or Low-Chroma Colors [] Other (explain in remarks) Unit Name: Taxonomy: Drainage Class: [] Field Observations match map Remarks Wetland Determination [X] Hydrophytic Vegetation Present [X] This Data Point is a Wetland [X] Hydric Soils Present [X] Wetland Hydrology Present | 4-0 0-1 1-12 Hydric | E A/B C Soils II Histoso | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 indicators ol Epipedon | Color Al 5YR 6/8 m | nany ew [] Con [] High | cretions | decomposed I Sand Silt | | |
| [X] Gleyed or Low-Chroma Colors [] Other (explain in remarks) Unit Name: Taxonomy: Drainage Class: [] Field Observations match map Remarks Wetland Determination [X] Hydrophytic Vegetation Present [X] Hydric Soils Present [X] Wetland Hydrology Present | 4-0 0-1 1-12 Hydric | E A/B C Soils II Histoso Histic E Sulfidio | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 Indicators ol Epipedon c Odor | Color Al 5YR 6/8 m 5YR 4/1 fe | nany ew [] Con [] High [] Orga | cretions n Organic % in anic Streaking | decomposed l Sand Silt Surface Layer | | |
| Unit Name: Taxonomy: Drainage Class: [] Field Observations match map Remarks Wetland Determination [X] Hydrophytic Vegetation Present [X] Hydric Soils Present [X] Wetland Hydrology Present | 4-0 0-1 1-12 Hydric | E A/B c Soils II Histoso Histic E Sulfidio | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 Indicators ol Epipedon c Odor ole Aquatic Moist R | Color Al 5YR 6/8 m 5YR 4/1 fe | nany ew [] Con [] High [] Orga [] Liste | cretions n Organic % in anic Streaking ed on Local Hyd | decomposed l Sand Silt Surface Layer dric Soils List | | |
| Drainage Class: [] Field Observations match map Remarks Wetland Determination [X] Hydrophytic Vegetation Present [X] Hydric Soils Present [X] Wetland Hydrology Present | 4-0 0-1 1-12 Hydric [: [: [: [X] | E A/B c Soils II Histoso Histic E Sulfidio Probab Reduci | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 indicators ol Epipedon c Odor ole Aquatic Moist R ing Conditions | Color Al 5YR 6/8 m 5YR 4/1 fe | nany ew [] Con [] High [] Org: [] Liste [] Liste | cretions n Organic % in anic Streaking and on Local Hydel on National I | decomposed l Sand Silt Surface Layer dric Soils List Hydric Soils Li | | |
| Wetland Determination [X] Hydrophytic Vegetation Present [X] Hydric Soils Present [X] Wetland Hydrology Present | 4-0 0-1 1-12 Hydric [| E A/B c Soils II Histoso Histic E Sulfidio Probab Reduci Gleyeo | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 indicators ol Epipedon c Odor ole Aquatic Moist R ing Conditions | Color Al 5YR 6/8 m 5YR 4/1 fe | nany ew [] Con [] High [] Orga [] Liste [] Othe | cretions n Organic % in anic Streaking ed on Local Hyded on National ler (explain in re | decomposed l Sand Silt Surface Layer dric Soils List Hydric Soils Li | | |
| Wetland Determination [X] Hydrophytic Vegetation Present [X] Hydric Soils Present [X] Wetland Hydrology Present | 4-0 0-1 1-12 Hydric [| E A/B c Soils II Histoso Sulfidio Probab Reduci Gleyeo Jame: | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 Indicators ol Epipedon c Odor ole Aquatic Moist R ing Conditions | Color Al 5YR 6/8 m 5YR 4/1 fe | nany [] Con [] High [] Orga [] Liste [] Othe Taxonomy: | cretions n Organic % in anic Streaking ed on Local Hyded on National ler (explain in re | decomposed l Sand Silt Surface Layer dric Soils List Hydric Soils Li marks) | | |
| [X] Hydrophytic Vegetation Present [X] This Data Point is a Wetland [X] Hydric Soils Present [X] Wetland Hydrology Present | 4-0 0-1 1-12 Hydric [| E A/B c Soils II Histoso Sulfidio Probab Reduci Gleyeo Jame: | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 Indicators ol Epipedon c Odor ole Aquatic Moist R ing Conditions | Color Al 5YR 6/8 m 5YR 4/1 fe | nany [] Con [] High [] Orga [] Liste [] Othe Taxonomy: | cretions n Organic % in anic Streaking ed on Local Hyded on National ler (explain in re | decomposed l Sand Silt Surface Layer dric Soils List Hydric Soils Li marks) | | |
| [X] Hydrophytic Vegetation Present [X] This Data Point is a Wetland [X] Hydric Soils Present [X] Wetland Hydrology Present | 4-0 0-1 1-12 Hydrid [| E A/B c Soils II Histose Histic E Sulfidie Probab Reduce Gleyect Jame: Jame: | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 Indicators ol Epipedon c Odor ole Aquatic Moist R ing Conditions | Color Al 5YR 6/8 m 5YR 4/1 fe | nany [] Con [] High [] Orga [] Liste [] Othe Taxonomy: | cretions n Organic % in anic Streaking ed on Local Hyded on National ler (explain in re | decomposed l Sand Silt Surface Layer dric Soils List Hydric Soils Li marks) | | |
| [X] Hydric Soils Present [X] Wetland Hydrology Present | Hydrid Hydrid | E A/B c Soils II Histose Histic E Sulfidie Probab Reduce Gleyece Jame: age Classes | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 Indicators ol Epipedon c Odor ole Aquatic Moist R ing Conditions d or Low-Chroma Coss: | Color Al 5YR 6/8 m 5YR 4/1 fe | nany [] Con [] High [] Orga [] Liste [] Othe Taxonomy: | cretions n Organic % in anic Streaking ed on Local Hyded on National ler (explain in re | decomposed l Sand Silt Surface Layer dric Soils List Hydric Soils Li marks) | | |
| [X] Wetland Hydrology Present | Hydrid Hydrid | E A/B c Soils II Histose Histic E Sulfidie Probat Reduce Gleyece Jame: age Class | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 Indicators ol Epipedon c Odor ole Aquatic Moist R ing Conditions d or Low-Chroma Coss: | Color Al 5YR 6/8 m 5YR 4/1 fe | any [] Con [] High [] Orga [] Liste [] Cithe Taxonomy: [] Field O | cretions n Organic % in anic Streaking ed on Local Hyded on National ler (explain in re | decomposed l Sand Silt Surface Layer dric Soils List Hydric Soils Li marks) | | |
| · · · · · · · · · · · · · · · · · · · | 4-0 0-1 1-12 Hydrid [| E A/B c Soils II] Histoso] Histic E] Sulfidio] Probab] Reduci] Gleyect lame: age Class ss | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 Indicators ol Epipedon c Odor ole Aquatic Moist R ing Conditions d or Low-Chroma C ss: etermination tic Vegetation Pres | Color Al 5YR 6/8 m 5YR 4/1 fe | any [] Con [] High [] Orga [] Liste [] Cithe Taxonomy: [] Field O | cretions n Organic % in anic Streaking ed on Local Hyded on National ler (explain in re | decomposed l Sand Silt Surface Layer dric Soils List Hydric Soils Li marks) | | |
| Remarks | 4-0 0-1 1-12 Hydrid [| E A/B c Soils II] Histoso] Histic E] Sulfidio] Probab] Reduci] Gleyeo lame: age Classos add De ydrophy ydric So | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 Indicators ol Epipedon c Odor ole Aquatic Moist R ing Conditions d or Low-Chroma Coss: etermination tic Vegetation Presides | Color Al 5YR 6/8 m 5YR 4/1 fe | any [] Con [] High [] Orga [] Liste [] Cithe Taxonomy: [] Field O | cretions n Organic % in anic Streaking ed on Local Hyded on National ler (explain in re | decomposed l Sand Silt Surface Layer dric Soils List Hydric Soils Li marks) | | |
| | 4-0 0-1 1-12 Hydrid [| E A/B c Soils II] Histoso] Histic E] Sulfidio] Probab] Reduci] Gleyeo lame: age Clas as nd De ydrophy ydric So etland H | GLEY2 2.5/5PB 10YR 6/1 5YR 5/1 Indicators ol Epipedon c Odor ole Aquatic Moist R ing Conditions d or Low-Chroma Coss: etermination tic Vegetation Presides | Color Al 5YR 6/8 m 5YR 4/1 fe | any ew [] Con [] High [] Orga [] Liste [] Cithe Taxonomy: [] Field O | cretions n Organic % in anic Streaking ed on Local Hyded on National ler (explain in re | decomposed l Sand Silt Surface Layer dric Soils List Hydric Soils Li marks) | | |

| Applicant/Ov Investigator: [X] Do normate [] Have veg | Concord Resort, Toyner: Concord Ass Ethan Stewart al circumstances exi- getation, soils, or hyc ea a potential probler | ociates, LP st on the site? Irology been distur | rbed? | Count State: Comn Statio | October 13, 2004 ty: Sullivan New York nunity ID: W8 n ID: Transect 8.1 D: Upland | |
|--|--|--|--|---|--|--------------------------------------|
| Dominant | Species | | Common Name | е | % Cover | Indicator |
| Shrub X | Rhododendron max | kimum | Rhododendron, | Rosebay | | FAC |
| <u>Tree</u> X | Pinus strobus Fagus grandifolia Fraxinus americana | 1 | Pine,Eastern W Beech Ash,White | hite | | FACU FAC+ FACU |
| % Species the Remarks | nat are OBL, FACW, | | | Cowardin | Classification: | |
| []S []A []C Field Obse Depti Depti | ed Data (describe in stream, Lake, or Tide lerial Photograph Other (describe in ren | remarks) Gage narks) h.): NA t(in.): >24 | Primary Wetland Hydro [] Inundated [] Saturated in upp [] Water marks [] Drift lines [] Sediment depos [] Drainage pattern | per 12 inches | Secondary Hydrology [] Oxidized root of a control of the control | channels leaves ey data est |
| Soils | | | | | | |
| | or. Matrix Color 5YR 3/1 5YR 3/3 7.5YR 4/6 | Mottle / 2nd Mo Color 7.5YR 4/4 7.5YR 5/6 | ttle Abundance Cont common few | | etc. sed leaves | |
| [] Histo [] Sulfi [] Sulfi [] Red [] Gley Unit Name: Drainage C | c Epipedon dic Odor pable Aquatic Moist F ucing Conditions yed or Low-Chroma (| Regime | [] Organi [] Listed ([] Listed ([] Other (Taxonomy: | etions Irganic % in Surface L C Streaking In Local Hydric Soils In National Hydric So I explain in remarks) I ervations match map | List | |
| Remarks | | | | | | |
| [] Hydrop [X] Hydric | Determination hytic Vegetation Presoils Present d Hydrology Present | sent | [] This Da | ata Point is a Wetland | 1 | |

Job Number: 100309 City: Thompson

Wetland Data Point: W8 (wetland)

| Project/Site: | Concord Resor | rt, Thompson, NY | , | | Date: October 13, 2004 | |
|------------------|-------------------------------------|-------------------|--------------------------|-----------------------|--------------------------|--------------|
| | wner: Concord A | Associates, LP | | | County: Sullivan | |
| Investigator | Ethan Stewart | | | | State: New York | |
| | nal circumstances | | | | Community ID: W8 | |
| | - | hydrology been di | sturbed? | | Station ID: Transect 8.1 | |
| [X] Is the ar | ea a potential prol | olem area? | | | Plot ID: Wetland | |
| Vegetatio | n | | | | | |
| Dominant | | | Common | Name | % Cover | Indicator |
| <u>Herbaceou</u> | | | | | | |
| X | Athyrium thelypt | | Fern,Silve | | | FAC |
| | Dryopteris interr Sphagnum sp. | nedia | vvooatern | ,Evergreen | | FACU |
| <u>Shrub</u> | эрпаунит эр. | | | | | |
| | Rhododendron i | maximum | Rhododer | dron,Rosebay | | FAC |
| <u>Tree</u> | | | | • | | |
| X | Tsuga canadens | | Hemlock, | | | FACU |
| | Betula alleghani Fraxinus americ | | Birch,Yello Ash,White | | | FAC FACU |
| | Acer rubrum | ana | Maple,Re | | | FAC |
| | Pinus strobus | | Pine,East | | | FACU |
| % Species t | hat are OBL, FAC | W, or FAC (excep | t FAC-): 50 | С | owardin Classification: | |
| Remarks | | | | | | |
| | | | | | | |
| Hydrolog | V | | Drimory Wotland | Hydrology Indicate | oro Socondon, Hudroloo | u Indiantoro |
| , , | ded Data (describe | in romarka) | [X] Inundated | r ryurology iriulcati | , , , | • |
| | ` | , | | in upper 12 inches | Oxidized root | |
| | Stream, Lake, or T | ide Gage | | in upper 12 inches | | |
| | Aerial Photograph | | [X] Water mar | KS | [] Local soil sur | • |
| [](| Other (describe in | remarks) | [] Drift lines | -l:t- | [] FAC-Neutral t | |
| Field Obse | ervations: | | [] Sediment | • | [] Other (explain | in remarks) |
| Dep | th of Surface Wate | er(in.): 0 | [X] Drainage p | patterns in wetland | IS . | |
| • | th to Free Water ir | ` ' | | | | |
| • | th to Saturated So | ` ' | | | | |
| · | 10 001010100 | | | | | |
| Remarks | | | | | | |
| | | | | | | |
| Soils | | | | | | |
| Depth He | or. Matrix | Mottle / 2nd | Mottle | Т | exture, | |
| (in.) | Color | Color | Abundance | Contrast S | Structure, etc. | |
| 2-0 O | GLEY2 2.5/5F | РВ | | (| decomposed leaves | |
| 0-8 A | 2.5YR 3/1 | 2.5YR 4/3 | few | S | Silt | |
| | | 2.5YR 4/4 | few | | | |
| Hvdric Soi | ls Indicators | | | | | |
| [] Hist | | | [] [| concretions | | |
| | tic Epipedon | | | ligh Organic % in \$ | Surface Laver | |
| | fidic Odor | | | organic Streaking | Danaco Layon | |
| | bable Aquatic Moi | et Pagima | | isted on Local Hyd | dric Soile Liet | |
| | ducing Conditions | st itegine | | isted on Local Hyd | | |
| | - | an Colora | | | | |
| [] Gie | yed or Low-Chron | ia Colors | [] | ther (explain in re | marks) | |
| Unit Name | : | | Taxonor | ny: | | |
| Drainage (| Class: | | [] Field | d Observations ma | atch map | |
| - | | | | | • | |
| Remarks | | | | | | |
| Hard Pan | | | | | | |
| Wetland I | Determinatio | n | | | | |
| [X] Hydror | hytic Vegetation I | Present | [x] T | his Data Point is a | a Wetland | |
| | Soils Present | | [] . | | | |
| | d Hydrology Pres | ent | | | | |
| Remarks | , 5.5 g , 1 155 | - ·- | | | | |
| TOTALING | | | | | | |

Data Form Routine Wetland Determination Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Job Number: 100309 City: Thompson Wetland Data Point: W10 Date: October 13, 2004 County: Sullivan

Investigator: Ethan Stewart State: New York [X] Do normal circumstances exist on the site? Community ID: W10 [] Have vegetation, soils, or hydrology been disturbed? Station ID: Transect 10.1 [X] Is the area a potential problem area? Plot ID: Upland (north) Vegetation **Dominant Species** Common Name % Cover Indicator **Tree** FAC Acer rubrum Maple, Red Pinus strobus Pine Eastern White **FACU** Fagus grandifolia Beech FAC+ % Species that are OBL, FACW, or FAC (except FAC-): 100 Cowardin Classification: Remarks Hydrology Primary Wetland Hydrology Indicators Secondary Hydrology Indicators [] Recorded Data (describe in remarks) [] Inundated [] Oxidized root channels [] Stream, Lake, or Tide Gage] Saturated in upper 12 inches [] Water-stained leaves [] Aerial Photograph] Water marks [] Local soil survey data [] Other (describe in remarks) [] Drift lines [] FAC-Neutral test [] Sediment deposits [] Other (explain in remarks) Field Observations: [] Drainage patterns in wetlands Depth of Surface Water(in.): NA Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks Soils Depth Mottle / 2nd Mottle Hor. Matrix Texture, Color (in.) Color Abundance Contrast Structure, etc. o 1-0 5YR 3/1 decomposed leaves 2.5YR 3/3 2.5YR 3/6 0-6 few Hydric Soils Indicators [] Concretions [] Histosol [] Histic Epipedon [] High Organic % in Surface Layer [] Sulfidic Odor [] Organic Streaking [] Probable Aquatic Moist Regime [] Listed on Local Hydric Soils List [] Listed on National Hydric Soils List [] Reducing Conditions [] Gleyed or Low-Chroma Colors [] Other (explain in remarks) Unit Name: Drainage Class: [] Field Observations match map Remarks Hard pan **Wetland Determination** [] Hydrophytic Vegetation Present [] This Data Point is a Wetland [] Hydric Soils Present [] Wetland Hydrology Present

Remarks Upland

Job Number: 100309 **Data Form Routine Wetland Determination**

City: Thompson Wetland Data Point: W10 (wetland)

Project/Site: Concord Resort, Thompson, NY Date: October 13, 2004 Applicant/Owner: Concord Associates, LP County: Sullivan

State: New York Investigator: Ethan Stewart Community ID: W10 [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been disturbed? Station ID: Transect 10.1 [X] Is the area a potential problem area? Plot ID: Wetland (north)

Vegetation

| Dominant | Species | Common Name | % Cove | r Indicator |
|------------------|---|-----------------------|--------------------------|-------------|
| Herbaceou | s | | | |
| X | Aster umbellatus | Aster, Flat-Top White | | FACW |
| | Fragaria virginiana | Strawberry, Virginia | | FACU |
| <u>Shrub</u> | 5 5 | , | | |
| <u> </u> | llex verticillata | Winterberry, Common | | FACW+ |
| | Vaccinium amoenum | Blueberry, Highbush | | FACW |
| Tree | | | | |
| <u>Tree</u> X | Acer rubrum | Maple,Red | | FAC |
| % Species t | hat are OBL FACW, or FAC (except FAC-): | 100 | Cowardin Classification: | |

Remarks

| Hydrology | Primary Wetland Hydrology Indicators | Secondary Hydrology Indicators |
|---|--------------------------------------|--------------------------------|
| [] Recorded Data (describe in remarks) | [] Inundated | [X] Oxidized root channels |
| [] Stream, Lake, or Tide Gage | [X] Saturated in upper 12 inches | [X] Water-stained leaves |
| [] Aerial Photograph | [X] Water marks | [] Local soil survey data |
| [] Other (describe in remarks) | [] Drift lines | [] FAC-Neutral test |
| Field Observations: | [] Sediment deposits | [] Other (explain in remarks) |
| Field Observations: | [X] Drainage patterns in wetlands | |

Depth to Saturated Soils(in.): 4 Remarks

Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): 0

Soils

| Depth | Hor. | Matrix | Mottle / 2nd Mottle | | | Texture, |
|-------|------|---------------|---------------------|-----------|----------|-------------------|
| (in.) | | Color | Color | Abundance | Contrast | Structure, etc. |
| 1-0 | 0 | GLEY2 2.5/5PB | | | | decomposed leaves |
| 0-8 | Α | 5YR 3/2 | 5YR 4/6 | few | | Silt |
| 8-16 | В | 5YR 4/3 | 5YR 3/1 | few | | Silt |
| | | | 7.5YR 6/6 | few | | |

Hydric Soils Indicators

| [] Histosol | [] Concretions |
|-----------------------------------|--|
| [] Histic Epipedon | [] High Organic % in Surface Layer |
| [] Sulfidic Odor | [] Organic Streaking |
| [] Probable Aquatic Moist Regime | [] Listed on Local Hydric Soils List |
| [X] Reducing Conditions | [] Listed on National Hydric Soils List |
| [X] Gleyed or Low-Chroma Colors | [] Other (explain in remarks) |
| Unit Name: | Taxonomy: |
| Drainage Class: | [] Field Observations match map |

Remarks

Wetland Determination

[X] Hydrophytic Vegetation Present

[X] Hydric Soils Present

[X] Wetland Hydrology Present

Remarks

[X] This Data Point is a Wetland

Job Number: 100309 **Data Form Routine Wetland Determination**

City: Thompson

Wetland Data Point: W10 (wetland) Project/Site: Concord Resort, Thompson, NY Date: October 13, 2004 Applicant/Owner: Concord Associates, LP County: Sullivan

| | : Ethan Stewart | • | | | e: New York |
|---|---|---|---|---|---|
| | nal circumstances ex | ist on the site? | | | munity ID: W10 |
| | egetation, soils, or hy | | sturbed? | | on ID: Transect 10.2 |
| | rea a potential proble | | idibod. | | D: Wetland (south) |
| egetatio | | | | | , |
| Dominant | Species | | Common Name | | % Cover Indicator |
| Herbaceou | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Χ | Thelypteris thelypte | | Fern,Marsh | | FACW+ |
| Chh | Athyrium pycnocar | pon | Fern,Narrow-Leaf L | .ady | FAC |
| <u>Shrub</u> X | Rhododendron ma | ximum | Rhododendron, Ros | ehav | FAC |
| ,, | Hamamelis virginia | | Witch-Hazel, Americ | | FAC- |
| <u>Tree</u> X | | | | | |
| Х | Acer rubrum Pinus strobus | | Maple,Red Pine,Eastern White | | FAC FACU |
| % Species t | that are OBL, FACW, | or FAC (except | | | Classification: |
| Remarks | | , , , | , | | |
| | | | | | |
| lydrolog | IV | | Primary Wetland Hydrolog | y Indicators | Secondary Hydrology Indicators |
| | ded Data (describe ir | remarke) | [] Inundated | y mulcalors | [] Oxidized root channels |
| | Stream, Lake, or Tide | , | [X] Saturated in upper | 12 inches | [X] Water-stained leaves |
| | Aerial Photograph | o Ougo | [X] Water marks | 12 mones | [] Local soil survey data |
| | | marks) | Drift lines | | [] FAC-Neutral test |
| , | | | • • | | [] Other (explain in remarks) |
| | , | | I X I Sediment deposits | | |
| Field Obse | ervations: | | [X] Sediment deposits [X] Drainage patterns in | wetlands | [] (|
| Dep | ervations: oth of Surface Water(i | • | [X] Drainage patterns in | wetlands | [] (|
| Dep Dep | ervations: oth of Surface Water(i oth to Free Water in P | Pit(in.): 10 | | n wetlands | () (|
| Dep Dep | ervations: oth of Surface Water(i | Pit(in.): 10 | | n wetlands | () (|
| Dep Dep | ervations: oth of Surface Water(i oth to Free Water in P | Pit(in.): 10 | | n wetlands | () (|
| Dep Dep Dep Remarks Seeps a | ervations: oth of Surface Water(i oth to Free Water in P | Pit(in.): 10 | | n wetlands | , , |
| Dep Dep Dep Remarks Seeps a | ervations: th of Surface Water(in th to Free Water in Peth to Saturated Soils | Pit(in.): 10 | | n wetlands | , , |
| Dep Dep Dep Remarks Seeps a | ervations: th of Surface Water(in th to Free Water in Peth to Saturated Soils | Pit(in.): 10 | [X] Drainage patterns ir | n wetlands Texture, | |
| Dep Dep Dep Remarks Seeps a Oils Depth He (in.) | ervations: th of Surface Water(int) th to Free Water in Poth to Saturated Soils and slope wetland lor. Matrix Color | Pit(in.): 10 (in.): 0 | [X] Drainage patterns ir | Texture, | e, etc. |
| Dep Dep Dep Remarks Seeps a Oils Depth He (in.) 2-0 O | ervations: th of Surface Water(int) th to Free Water in Poth to Saturated Soils and slope wetland for. Matrix Color GLEY2 2.5/5PB | Mottle / 2nd I | [X] Drainage patterns in Mottle Abundance Contrast | Texture, Structure decomp | |
| Dep Dep Dep Remarks Seeps a Soils Depth He (in.) 2-0 O 0-1 A | ervations: oth of Surface Water(into Free Water in Poth to Saturated Soils) and slope wetland or. Matrix Color GLEY2 2.5/5PB 5YR 3/2 | Mottle / 2nd I Color | [X] Drainage patterns in Mottle Abundance Contrast | Texture, Structure decomp Silt | e, etc. |
| Dep Dep Dep Remarks Seeps a Oils Depth He (in.) 2-0 O | ervations: th of Surface Water(int) th to Free Water in Poth to Saturated Soils and slope wetland for. Matrix Color GLEY2 2.5/5PB 5YR 3/2 | Mottle / 2nd I Color 5YR 4/6 5YR 4/6 | [X] Drainage patterns in Mottle Abundance Contrast | Texture, Structure decomp | e, etc. |
| Dep Dep Dep Remarks Seeps a Foils Depth Ho (in.) 2-0 O 0-1 A 1-12 B | ervations: bth of Surface Water(into Free Water in Poth to Saturated Soils) and slope wetland for. Matrix Color GLEY2 2.5/5PB 5YR 3/2 5YR 4/3 | Mottle / 2nd I Color | [X] Drainage patterns in Mottle Abundance Contrast | Texture, Structure decomp Silt | e, etc. |
| Dep Dep Dep Remarks Seeps a Foils Depth House (in.) 2-0 O 0-1 A 1-12 B | ervations: both of Surface Water(into Free Water in Poth to Saturated Soils) and slope wetland bor. Matrix Color GLEY2 2.5/5PB 5YR 3/2 5YR 4/3 bils Indicators | Mottle / 2nd I Color 5YR 4/6 5YR 4/6 | [X] Drainage patterns in Mottle Abundance Contrast few few | Texture, Structure decomp Silt Silt | e, etc. |
| Dep Dep Dep Remarks Seeps a Oils Depth Hour (in.) 2-0 O 0-1 A 1-12 B | ervations: both of Surface Water(into the Free Water in Poth to Saturated Soils) and slope wetland bor. Matrix Color GLEY2 2.5/5PB 5YR 3/2 5YR 4/3 ills Indicators stosol | Mottle / 2nd I Color 5YR 4/6 5YR 4/6 | [X] Drainage patterns in Mottle Abundance Contrast few few few [] Concretion | Texture, Structure decomp Silt Silt | e, etc. osed leaves |
| Dep Dep Dep Remarks Seeps a Oils Depth Ho (in.) 2-0 O 0-1 A 1-12 B Hydric Soi [] Hist [] Hist | ervations: oth of Surface Water (in the Free Water in Poth to Saturated Soils) and slope wetland or. Matrix Color GLEY2 2.5/5PB 5YR 3/2 5YR 4/3 ills Indicators ctosol ctic Epipedon | Mottle / 2nd I Color 5YR 4/6 5YR 4/6 | [X] Drainage patterns in Mottle Abundance Contrast few few few [] Concretion [] High Organ | Texture, Structure decomp Silt Silt | e, etc. osed leaves |
| Dep Dep Dep Dep Remarks Seeps a Oils Depth He (in.) 2-0 O 0-1 A 1-12 B Hydric Soi [] Hist [] Sult | ervations: oth of Surface Water (in the Free Water in Poth to Saturated Soils) and slope wetland or. Matrix Color GLEY2 2.5/5PB 5YR 3/2 5YR 4/3 ills Indicators ctosol ctic Epipedon (fidic Odor | Mottle / 2nd I Color 5YR 4/6 5YR 4/2 | Mottle Abundance Contrast few few [] Concretion [] High Organic St | Texture, Structure decomp Silt Silt Silt sis nic % in Surface reaking | e, etc. osed leaves Layer |
| Dep | ervations: oth of Surface Water (in the Free Water in Poth to Saturated Soils) and slope wetland or. Matrix Color GLEY2 2.5/5PB 5YR 3/2 5YR 4/3 ills Indicators ctosol ctic Epipedon (fidic Odor Obable Aquatic Moist | Mottle / 2nd I Color 5YR 4/6 5YR 4/2 | Mottle Abundance Contrast few few [] Concretion [] High Organ [] Organic St [] Listed on L | Texture, Structure decomp Silt Silt Silt s nic % in Surface reaking .ocal Hydric Soils | e, etc. osed leaves Layer s List |
| Dep Dep Dep Dep Remarks Seeps a Foils Depth He (in.) 2-0 O 0-1 A 1-12 B Hydric Soi [] Hist [] Sult [] Pro [X] Rec | ervations: oth of Surface Water (in the Free Water in Poth to Saturated Soils) and slope wetland or. Matrix Color GLEY2 2.5/5PB 5YR 3/2 5YR 4/3 ills Indicators stosol stic Epipedon (fidic Odor obable Aquatic Moist ducing Conditions | Mottle / 2nd I Color 5YR 4/6 5YR 4/6 5YR 4/2 Regime | Mottle Abundance Contrast few few [] Concretion [] High Organ [] Organic St [] Listed on N | Texture, Structure decomp Silt Silt Silt s nic % in Surface reaking .ocal Hydric Soils | e, etc. osed leaves Layer s List |
| Dep Dep Dep Dep Remarks Seeps a Foils Depth He (in.) 2-0 O 0-1 A 1-12 B Hydric Soi [] Hist [] Sult [] Pro [X] Rec | ervations: oth of Surface Water (in the Free Water in Poth to Saturated Soils) and slope wetland or. Matrix Color GLEY2 2.5/5PB 5YR 3/2 5YR 4/3 ills Indicators ctosol ctic Epipedon (fidic Odor Obable Aquatic Moist | Mottle / 2nd I Color 5YR 4/6 5YR 4/6 5YR 4/2 Regime | Mottle Abundance Contrast few few [] Concretion [] High Organ [] Organic St [] Listed on N | Texture, Structure decomp Silt Silt Silt s nic % in Surface reaking .ocal Hydric Soils | e, etc. osed leaves Layer s List |
| Dep Dep Dep Dep Remarks Seeps a Foils Depth Ho (in.) 2-0 O 0-1 A 1-12 B Hydric Soi [] Hist [] Sult [] Pro [X] Rec [X] Gle | ervations: th of Surface Water(int) th to Free Water in Poth to Saturated Soils and slope wetland for. Matrix Color GLEY2 2.5/5PB 5YR 3/2 5YR 4/3 ills Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist ducing Conditions eyed or Low-Chroma | Mottle / 2nd I Color 5YR 4/6 5YR 4/6 5YR 4/2 Regime | Mottle Abundance Contrast few few [] Concretion [] High Organ [] Organic St [] Listed on L [] Listed on N [] Other (exp | Texture, Structure decomp Silt Silt Silt s nic % in Surface reaking .ocal Hydric Soils | e, etc. osed leaves Layer s List |
| Dep Dep Dep Dep Remarks Seeps a Foils Depth Ho (in.) 2-0 O 0-1 A 1-12 B Hydric Soi [] Hist [] Sult [] Pro [X] Rec [X] Gle Unit Name | ervations: oth of Surface Water(int) oth to Free Water in Poth to Saturated Soils and slope wetland or. Matrix Color GLEY2 2.5/5PB 5YR 3/2 5YR 4/3 ills Indicators ottosol ottic Epipedon officio Odor obable Aquatic Moist ducing Conditions eyed or Low-Chroma | Mottle / 2nd I Color 5YR 4/6 5YR 4/6 5YR 4/2 Regime | Mottle Abundance Contrast few few [] Concretion [] High Organ [] Organic St [] Listed on L [] Listed on N [] Other (exp | Texture, Structure decomp Silt Silt Silt Silt Sinc % in Surface reaking ocal Hydric Soils National Hydric S | e, etc. osed leaves Layer s List ioils List |
| Dep Dep Dep Dep Remarks Seeps a Foils Depth He (in.) 2-0 O 0-1 A 1-12 B Hydric Soi | ervations: oth of Surface Water(int) oth to Free Water in Poth to Saturated Soils and slope wetland or. Matrix Color GLEY2 2.5/5PB 5YR 3/2 5YR 4/3 ills Indicators ottosol ottic Epipedon officio Odor obable Aquatic Moist ducing Conditions eyed or Low-Chroma | Mottle / 2nd I Color 5YR 4/6 5YR 4/6 5YR 4/2 Regime | Mottle Abundance Contrast few few [] Concretion [] High Organ [] Organic St [] Listed on L [] Listed on N [] Other (exp | Texture, Structure decomp Silt Silt Silt Silt Sinc % in Surface reaking ocal Hydric Soils National Hydric S | e, etc. osed leaves Layer s List ioils List |
| Dep Dep Dep Dep Remarks Seeps a Foils Depth He (in.) 2-0 O 0-1 A 1-12 B Hydric Soi | ervations: oth of Surface Water (in the Free Water in Poth to Saturated Soils) and slope wetland or. Matrix Color GLEY2 2.5/5PB 5YR 3/2 5YR 4/3 ils Indicators itosol itic Epipedon Iffidic Odor obable Aquatic Moist ducing Conditions eyed or Low-Chroma a: Class: | Mottle / 2nd I Color 5YR 4/6 5YR 4/6 5YR 4/2 Regime | Mottle Abundance Contrast few few [] Concretion [] High Organ [] Organic St [] Listed on L [] Listed on N [] Other (exp | Texture, Structure decomp Silt Silt Silt Silt Sinc % in Surface reaking ocal Hydric Soils National Hydric S | e, etc. osed leaves Layer s List ioils List |
| Dep Dep Dep Dep Remarks Seeps a Foils Depth He (in.) 2-0 O 0-1 A 1-12 B Hydric Soi | ervations: oth of Surface Water(int) oth to Free Water in Poth to Saturated Soils and slope wetland or. Matrix Color GLEY2 2.5/5PB 5YR 3/2 5YR 4/3 ills Indicators ottosol ottic Epipedon officio Odor obable Aquatic Moist ducing Conditions eyed or Low-Chroma | Mottle / 2nd I Color 5YR 4/6 5YR 4/6 5YR 4/2 Regime Colors | Mottle Abundance Contrast few few [] Concretion [] High Organ [] Organic St [] Listed on L [] Listed on N [] Other (exp | Texture, Structure decomp Silt Silt Silt Silt Sinc % in Surface reaking ocal Hydric Soils National Hydric S | e, etc. osed leaves Layer s List ioils List |

Wetland Determination

[X] Hydrophytic Vegetation Present

[] Hydric Soils Present

[X] Wetland Hydrology Present

Remarks

[X] This Data Point is a Wetland

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination** Wetland Data Point: W9 Project/Site: Concord Resort, Thompson, NY Date: October 13, 2004 Applicant/Owner: Concord Associates, LP County: Sullivan Investigator: Ethan Stewart State: New York [X] Do normal circumstances exist on the site? Community ID: W9 [] Have vegetation, soils, or hydrology been disturbed? Station ID: Transect 9.1 [] Is the area a potential problem area? Plot ID: Upland (west) Vegetation **Dominant Species Common Name** % Cover Indicator **Tree** Pine, Eastern White **FACU** Pinus strobus Maple,Red FAC Acer rubrum % Species that are OBL, FACW, or FAC (except FAC-): 0 Cowardin Classification: Remarks Hydrology Primary Wetland Hydrology Indicators Secondary Hydrology Indicators [] Recorded Data (describe in remarks) [] Inundated [] Oxidized root channels [] Water-stained leaves [] Stream, Lake, or Tide Gage [] Saturated in upper 12 inches [] Local soil survey data [] Aerial Photograph [] Water marks [] Other (describe in remarks) [] Drift lines [] FAC-Neutral test [] Sediment deposits [] Other (explain in remarks) Field Observations: [] Drainage patterns in wetlands Depth of Surface Water(in.): NA Depth to Free Water in Pit(in.): NA Depth to Saturated Soils(in.): NA Remarks Soils Depth Hor. Matrix Mottle / 2nd Mottle Texture. Color Abundance Contrast Structure, etc. (in.) 2-0 0 5YR 3/1 decomposed leaves 0-5 Α 5YR 4/4 Silt 5-12 В 2.5YR 5/4 2.5YR 5/6 common Silt 2.5YR 3/4 few Hydric Soils Indicators [] Histosol [] Concretions [] Histic Epipedon [] High Organic % in Surface Layer [] Sulfidic Odor [] Organic Streaking [] Probable Aquatic Moist Regime [] Listed on Local Hydric Soils List [X] Reducing Conditions [] Listed on National Hydric Soils List [X] Gleyed or Low-Chroma Colors [] Other (explain in remarks)

Wetland Determination

Unit Name:

Remarks

Upland

Drainage Class:

[] Hydrophytic Vegetation Present
[] Hydric Soils Present
[] Wetland Hydrology Present
Remarks

[] This Data Point is a Wetland

[] Field Observations match map

Taxonomy:

Job Number: 100309 **Data Form Routine Wetland Determination**

City: Thompson

Wetland Data Point: W9 (wetland)

| Applicant Investigate [X] Do not [] Have | /Owner tor: Eprind of veget area stion at Sous | concord Resort, Ter: Concord Association Stewart circumstances existation, soils, or hydropotential problem pecies Carex alopecoidea phagnum sp. | t on the site? rology been distu | | Common Name Sedge,Foxtail | County: State: N Communi Station ID | ew York fity ID: W9 D: Transect 9.1 Vetland (west) % Cover 5 5 | Indicator FACW |
|---|--|--|-------------------------------------|-------------------|---|---|--|--------------------------------------|
| <u>Tree</u> X | | accinium corymbos | Sum | | Blueberry, Highbush | | 25 | |
| | Р | cer rubrum linus strobus are OBL, FACW, o | or FAC (except F | | Maple,Red Pine,Eastern White 100 | Cowardin Clas | 35 30 ssification: | FAC FACU |
| Hydrolo | gy | | | Primar | ry Wetland Hydrology Indic | ators S | econdary Hydrology | / Indicators |
| [[Field Ot D D |] Stree] Aeri] Other serva epth cepth to | Data (describe in a cam, Lake, or Tide ial Photograph er (describe in remations: of Surface Water (in o Free Water describe) of Saturated Soils(in the case) | remarks) Gage arks) .): 0 (in.): 1 | [X] [X] [X] | Inundated Saturated in upper 12 inch Water marks Drift lines Sediment deposits Drainage patterns in wetla | es | Oxidized root of [X] Water-stained Description of the control of t | channels leaves ey data est |
| Soils | | | | | | | | |
| Depth (in.) | Hor. | Matrix Color | Mottle / 2nd Mo | | undance Contrast | Texture, Structure, etc | | |
| 2-0 | 0 | GLEY2 2.5/5PB | 00.01 | 7154 | and Contract | decomposed | | |
| 0-3 3-14 | A B | 7.5YR 3/2 10YR 6/1 | 7.5YR 5/5GY 7.5YR 7/1 | few few | | Silt Silt | | |
| [] F [] S [] F [] F | distoso distic E Sulfidio Probab Reduci | ndicators Di Epipedon Codor Die Aquatic Moist R Ing Conditions I or Low-Chroma C | | | [] Concretions [] High Organic % in [] Organic Streaking [] Listed on Local H [] Listed on Nationa [] Other (explain in | g lydric Soils List al Hydric Soils l | t. | |
| Unit Na Drainag | me: | | | | Taxonomy: [] Field Observations r | ŕ | | |
| Remarks | | | | | | | | |
| Wetland | d De | termination | | | | | | |
| [X] Hyd | ric So land F | tic Vegetation Pres ils Present Hydrology Present | ent | | [X] This Data Point is | s a Wetland | | |

Data Form Routine Wetland Determination Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been disturbed?

Job Number: 100309 City: Thompson

| | Welland Data Point: W9 | |
|--|--|--|
| ed? | Date: October 13, 2004 County: Sullivan State: New York Community ID: W9 Station ID: Transect 9.2 Plot ID: Upland (east) | |
| Common Name | % Cover | Indicator |
| Maple,Red Pine,Eastern White | Cowardin Classification: | FAC FACU |
| <i>y</i> , 100 | oowardiii olacoiiisalloiii | |
| imary Wetland Hydrology Indic [] Inundated [] Saturated in upper 12 inch [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetla | [] Oxidized root nes [] Water-stained [] Local soil sur [] FAC-Neutral [] Other (explain | t channels d leaves vey data test |
| e Abundance Contrast | Texture, Structure, etc. decomposed leaves | |
| few few | Silt Silt | |
| [] Concretions [] High Organic % i [] Organic Streakin [] Listed on Local H [] Listed on Nationa [] Other (explain in Taxonomy: [] Field Observations in | g dydric Soils List al Hydric Soils List remarks) | |
| [] This Data Point is | s a Wetland | |

Hydrology

Remarks

Vegetation Dominant Species

Tree

[] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage

% Species that are OBL, FACW, or FAC (except FAC-): 100

[] Is the area a potential problem area?

Acer rubrum

Pinus strobus

[] Aerial Photograph [] Other (describe in remarks)

Field Observations:

Depth of Surface Water(in.): NA Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24

Remarks

Soils

| Depth | Hor. | . Matrix | Mottle / 2nd Mo | le / 2nd Mottle | | Texture, | | |
|-------|------|----------|-----------------|-----------------|----------|-------------------|--|--|
| (in.) | | Color | Color | Abundance | Contrast | Structure, etc. | | |
| 2-0 | 0 | 5YR 3/1 | | | | decomposed leaves | | |
| 0-4 | Α | 5YR 4/4 | | | | Silt | | |
| 4-16 | В | 5YR 4/3 | 5YR 5/4 | few | | Silt | | |
| | | | 5YR 3/3 | few | | | | |
| | | | | | | | | |

Primary Wetland Hydrology

Hydric Soils Indicators

[] Histosol [] Concretions [] Histic Epipedon [] High Organic [] Sulfidic Odor [] Organic Stre [] Probable Aquatic Moist Regime [] Listed on Lo [] Reducing Conditions [] Listed on Na [] Gleyed or Low-Chroma Colors [] Other (explain

Unit Name: Taxonomy: Drainage Class: [] Field Observation

Remarks

Wetland Determination

[] Hydrophytic Vegetation Present [] Hydric Soils Present

[] Wetland Hydrology Present

Remarks Upland

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W9 (wetland)

| Applicant/C Investigator [X] Do norr [] Have ve | e: Concord Resort, owner: Concord As: r: Ethan Stewart mal circumstances ex egetation, soils, or hy rea a potential proble | ist on the site? | urbed? | | County: State: Commu Station | October 13, 2004 Sullivan New York Inity ID: W9 ID: Transect 9.2 Wetland (east) | |
|--|---|-----------------------------------|--|--|---|--|--------------------------------------|
| Vegetation Dominant | | | Commo | n Nama | | 9/ Cayer | Indicator |
| Herbaceou | Species Is | | Commo | n Name | | % Cover | Indicator |
| X | Thelypteris novebo Juniper Polytrichur Sphagnum sp. | | Fern,Ne Moss | w York | | | FAC |
| <u>Shrub</u> <u>Tree</u> | Vaccinium corymb | osum | Blueberr | y,Highbush | | | FACW- |
| X | Acer rubrum Pinus strobus | | Maple,R Pine,Eas | ed stern White | | | FAC FACU |
| | that are OBL, FACW | or FAC (except | | | Cowardin Cl | assification: | |
| Remarks | | | | | | | |
| [] [] Field Obs | ded Data (describe ir Stream, Lake, or Tide Aerial Photograph Other (describe in re | e Gage marks) | [X] Water ma [] Drift lines [] Sedimen | d d in upper 12 inc arks | hes | Secondary Hydrology [X] Oxidized root of [X] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | channels leaves ey data est |
| Remarks Soils | oth to Saturated Soils | Mottle / 2nd M | | | Texture, | | |
| (in.) 2-0 C | Color GLEY2 2.5/5PB | Color | Abundance | Contrast | Structure, e decompose | | |
| 0-5 A 5-16 B | 5YR 5/2 | 5YR 5/6 2.5YR 5/4 2.5YR 5/3 | many many many | | Silt Silt | eu leaves | |
| [] His [] His [] Su [] Pro [X] Re | sils Indicators stosol stic Epipedon Ifidic Odor obable Aquatic Moist ducing Conditions eyed or Low-Chroma | Regime | [] [] [] [] | Concretions High Organic % Organic Streakil Listed on Local Listed on Natior Other (explain in | ng Hydric Soils Li nal Hydric Soils | ist | |
| Unit Name Drainage | e: | | Taxon | | ŕ | | |
| Remarks | | | | | | | |
| Wetland | Determination | | | | | | |
| [X] Hydro [X] Hydrid | phytic Vegetation Pre Soils Present and Hydrology Presen | | [X] | This Data Point | is a Wetland | | |

| Project/Site: Concord Resort, Thompson, I Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site [] Have vegetation, soils, or hydrology been [X] Is the area a potential problem area? Vegetation Dominant Species Tree X Acer rubrum X Pinus strobus Fagus grandifolia | ? | Date: October 13, 2004 County: Sullivan State: New York Community ID: W22 Station ID: Transect 22.1 Plot ID: Upland (south) **Cover** Indicator FAC FACU FAC+ |
|---|--|--|
| Betula alleghaniensis % Species that are OBL, FACW, or FAC (exce Remarks | Birch,Yellow ept FAC-): 50 Co | wardin Classification: |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): NA Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicator [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| Depth (in.) Hor. Matrix Color Mottle / 2n Color 1-0 0 5YR 3/1 0-5 A 5YR 3/3 5-16 B 7.5YR 4/4 10YR 4/2 | Abundance Contrast St d Si | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: Remarks | few Si [] Concretions [] High Organic % in S [] Organic Streaking [] Listed on Local Hydr [] Listed on National H [] Other (explain in rem Taxonomy: [] Field Observations mate | urface Layer ric Soils List ydric Soils List narks) |
| Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a | Wetland |

Job Number: 100309 **Data Form Routine Wetland Determination**

City: Thompson Wetland Data Point: W22 (wetland)

Project/Site: Concord Resort, Thompson, NY Date: October 13, 2004 Applicant/Owner: Concord Associates, LP County: Sullivan Investigator: Ethan Stewart State: New York [X] Do normal circumstances exist on the site? Community ID: W22 [] Have vegetation, soils, or hydrology been disturbed? Station ID: Transect 22.1 [] Is the area a potential problem area? Plot ID: Wetland (south) Vegetation **Dominant Species Common Name** % Cover Indicator **Tree** Hemlock, Eastern **FACU** Tsuga canadensis Maple,Red Acer rubrum FAC % Species that are OBL, FACW, or FAC (except FAC-): 0 Cowardin Classification: Remarks Hydrology Primary Wetland Hydrology Indicators Secondary Hydrology Indicators [] Recorded Data (describe in remarks) [] Inundated [] Oxidized root channels [] Stream, Lake, or Tide Gage [X] Saturated in upper 12 inches [X] Water-stained leaves [] Aerial Photograph [X] Water marks [] Local soil survey data [] Drift lines [] Other (describe in remarks) [] FAC-Neutral test [] Sediment deposits [] Other (explain in remarks) Field Observations: [X] Drainage patterns in wetlands Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): 0 Depth to Saturated Soils(in.): 0 Remarks Soils Depth Hor. Matrix Mottle / 2nd Mottle Texture. Color Color Abundance Contrast Structure, etc. (in.) GLEY2 2.5/5PB 3-0 0 decomposed leaves 0-4 Α 5YR 5/2 5YR 4/6 common Silt 4-16 В 5YR 4/4 5YR 6/4 common Silt 5YR 3/1 few Hydric Soils Indicators [] Histosol [] Concretions [] Histic Epipedon [X] High Organic % in Surface Layer [] Sulfidic Odor [] Organic Streaking [X] Probable Aquatic Moist Regime [] Listed on Local Hydric Soils List [X] Reducing Conditions [] Listed on National Hydric Soils List [X] Gleyed or Low-Chroma Colors [] Other (explain in remarks) Unit Name: Taxonomy: **Drainage Class:** [] Field Observations match map Remarks Wetland Determination [X] Hydrophytic Vegetation Present [X] This Data Point is a Wetland [X] Hydric Soils Present [X] Wetland Hydrology Present

Remarks

| Project/Site: | Concord Resort, | Thompson, NY | | Date | e: October 13, 2004 | | |
|------------------|-------------------------|------------------|----------------------------------|---------------------|-----------------------|----------------|--|
| | wner: Concord Ass | | County: Sullivan | | | | |
| | Ethan Stewart | | | | | | |
| | al circumstances exi | st on the site? | | Com | nmunity ID: W22 | | |
| | getation, soils, or hyd | | urbed? | | ion ID: Transect 22.2 | | |
| | ea a potential probler | | | | ID: Upland (north) | | |
| | | n aroa. | | 1 100 | ib. Opiana (nortin) | | |
| Vegetatio | | | | | a. a | | |
| Dominant | Species | | Common Name | | % Cover | Indicator | |
| <u>Herbaceou</u> | | | Cadaa Narraw La | o f | | FAC | |
| Troo | Carex amphibola | | Sedge,Narrow-Le | ar | | FAC | |
| <u>Tree</u> X | Acer rubrum | | Maple,Red | | | FAC | |
| Λ. | Pinus strobus | | Pine,Eastern Whi | te | | FACU | |
| | Betula alleghaniens | sis | Birch, Yellow | .0 | | FAC | |
| | Tsuga canadensis | | Hemlock, Eastern | | | FACU | |
| % Species t | hat are OBL, FACW, | or FAC (except F | AC-): 100 | Cowardir | n Classification: | | |
| Remarks | | | | | | | |
| | | | | | | | |
| Lydralas | ., | | | | | | |
| Hydrolog | у | | Primary Wetland Hydrolo | gy Indicators | Secondary Hydrology | Indicators | |
| [] Record | led Data (describe in | remarks) | [] Inundated | | [] Oxidized root of | channels | |
| [] | Stream, Lake, or Tide | Gage | [] Saturated in upper | r 12 inches | [] Water-stained | leaves | |
| | Aerial Photograph | | [] Water marks | | [] Local soil surv | ey data | |
| | Other (describe in ren | narks) | Drift lines | | [] FAC-Neutral to | · · | |
| | (| , | [] Sediment deposits | 1 | [] Other (explain | | |
| Field Obse | ervations: | | Drainage patterns | | [] Other (explain | iii iciiiaiko) | |
| Dept | th of Surface Water(in | n.): NA | [] Drainage patterns | III Wellalius | | | |
| Dept | th to Free Water in Pi | it(in.): >24 | | | | | |
| • | th to Saturated Soils(| . , | | | | | |
| 200 | 10 Gataratea Gono(| , | | | | | |
| Remarks | | | | | | | |
| | | | | | | | |
| Soils | | | | | | | |
| Depth Ho | or. Matrix | Mottle / 2nd Mo | ottle | Texture. | | | |
| (in.) | Color | Color | Abundance Contra | | • | | |
| 1-0 O | 5YR 3/1 | | | | posed leaves | | |
| 0-5 A | 5YR 3/2 | | | Silt | | | |
| 5-14 B | 5YR 4/3 | 5YR 3/2 | few | Silt | | | |
| 011 2 | 0111 1/10 | 5YR 4/2 | common | Oiit | | | |
| | | | | | | | |
| • | ls Indicators | | | | | | |
| [] Hist | osol | | [] Concretion | ons | | | |
| [] Hist | ic Epipedon | | [] High Org | anic % in Surface | e Layer | | |
| [] Sulf | idic Odor | | [] Organic (| Streaking | | | |
| []Pro | bable Aquatic Moist F | Regime | | Local Hydric Soil | ls List | | |
| | lucing Conditions | <u> </u> | | National Hydric S | | | |
| | yed or Low-Chroma (| Colors | | plain in remarks) | | | |
| [] Ole | you or Low-Officilla (| 00.013 | | piani ni icinaiks) | | | |
| Unit Name | : | | Taxonomy: | | | | |
| Drainage (| Class: | | [] Field Observations match map | | | | |
| • | | | | | | | |
| Remarks | | | | | | | |
| Wetland I | Determination | | | | | _ | |
| | | aant | I This Dec | Doint in a Matte | ad | | |
| | hytic Vegetation Pre | sent | [] This Data | a Point is a Wetlar | na | | |
| | Soils Present | | | | | | |
| [] Wetlan | d Hydrology Present | | | | | | |
| Remarks | | | | | | | |
| rtomanto | | | | | | | |
| Upland | | | | | | | |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W22 (wetland)

| Project/Site: Concord Resort, Thompson, N Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been of [] Is the area a potential problem area? | S disturbed? | tate: October 13, 2004 county: Sullivan ctate: New York community ID: W22 ctation ID: Transect 22.2 clot ID: Wetland (north) |
|---|--|--|
| Vegetation Dominant Species | Common Name | % Cover Indicator |
| Herbaceous X Athyrium pycnocarpon Spiraea alba Shrub Vaccinium corymbosum Tree X Acer rubrum Pinus strobus Tsuga canadensis % Species that are OBL, FACW, or FAC (exce | Fern,Narrow-Leaf Lady Meadow-Sweet,Narrow-Leaf Blueberry,Highbush Maple,Red Pine,Eastern White Hemlock,Eastern | FAC FACW+ FACW- FAC FACU FACU FACU FACU |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): moist Depth to Free Water in Pit(in.): NA Depth to Saturated Soils(in.): 8 Remarks | Primary Wetland Hydrology Indicators [] Inundated [X] Saturated in upper 12 inches [X] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | Secondary Hydrology Indicators [] Oxidized root channels [X] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| Depth (in.) Hor. Matrix Mottle / 2nd Color 1-0 O GLEY2 2.5/5PB 0-16 A/B GLEY1 6/N 5YR 5/8 5YR 6/6 | Abundance Contrast Structure deco | ire, ture, etc. omposed leaves Clay Loam |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [X] Probable Aquatic Moist Regime [X] Reducing Conditions [] Gleyed or Low-Chroma Colors | [] Concretions [] High Organic % in Surf. [] Organic Streaking [] Listed on Local Hydric : [] Listed on National Hydronic (explain in remar | Soils List ic Soils List |
| Unit Name: Drainage Class: Remarks | Taxonomy: [] Field Observations match | map |
| Wetland Determination [X] Hydrophytic Vegetation Present [X] Hydric Soils Present [X] Wetland Hydrology Present Remarks | [X] This Data Point is a We | tland |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination** Wetland Data Point: W21 Project/Site: Concord Resort, Thompson, NY Date: October 13, 2004 Applicant/Owner: Concord Associates, LP County: Sullivan Investigator: Ethan Stewart State: New York [X] Do normal circumstances exist on the site? Community ID: W21 [] Have vegetation, soils, or hydrology been disturbed? Station ID: Transect 21.1 [] Is the area a potential problem area? Plot ID: Upland Vegetation **Dominant Species Common Name** % Cover Indicator Tree Acer rubrum Maple.Red FAC

| X | 7 | Tsuga canadens | is | Hemlock,Eas | tern | FACU | |
|--|---|---|--------------------------|--|---|--|--|
| % Species that are OBL, FACW, or FAC (exce | | | N, or FAC (excep | ot FAC-): 50 | Coward | in Classification: | |
| Remarks | S | | | | | | |
| Hydrol | ogy | | | Primary Wetland Hy | drology Indicators | Secondary Hydrology Indicators | |
| [[[Field C [[|] Stro] Aer] Oth Deserva Depth of Depth of | d Data (describe eam, Lake, or Ti rial Photograph ner (describe in r ations: of Surface Wate to Free Water in to Saturated Soi | r(in.): NA Pit(in.): >24 | [] Water marks [] Drift lines [] Sediment dep | upper 12 inches posits erns in wetlands | [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) | |
| Remar | KS | | | | | | |
| Soils | | | | | | | |
| Depth | Hor. | Matrix Color | Mottle / 2nd Color | | Texture ontrast Structu | | |
| (in.) 3-0 | 0 | 5YR 3/1 | Coloi | Abundance Co | | posed leaves | |
| 0-5 | A | 2.5YR 5/3 | | | docon | 1,0000 100,000 | |
| 5-16 | В | 5YR 4/6 | 5YR 4/4 5YR 5/6 | few few | Silt | | |
| Hydric | Soils I | Indicators | | | | | |
| [] | Histos | ol | | [] Con | cretions | | |
| [] | Histic | Epipedon | | [] High | Organic % in Surfac | e Layer | |
| | | c Odor | | | anic Streaking | - | |
| [] Probable Aquatic Moiet Pagima | | | et Pagima | [] Listed on Local Hydric Soils List | | | |

| Depth Hor. Matrix | | Mottle / 2nd I | Mottle | | Texture, | | |
|-------------------|---------|----------------------|---------|-----------|----------------|---|--|
| (in.) | | Color | Color | Abundance | Contrast | Structure, etc. | |
| 3-0 | 0 | 5YR 3/1 | | | | decomposed leaves | |
| 0-5 | Α | 2.5YR 5/3 | | | | | |
| 5-16 | В | 5YR 4/6 | 5YR 4/4 | few | | Silt | |
| | | | 5YR 5/6 | few | | | |
| Hydric | Soils I | Indicators | | | | | |
| [] | Histos | ol | | [] | Concretions | | |
| [] | Histic | Epipedon | | [] | High Organic % | 6 in Surface Layer | |
| []: | Sulfidi | c Odor | | [] | Organic Streak | king | |
| [] | Probal | ble Aquatic Moist R | eaime | ii | Listed on Loca | I Hydric Soils List | |
| | | ing Conditions | · · | | | onal Hydric Soils List | |
| | | d or Low-Chroma C | colors | | Other (explain | • | |
| | | | | | (0.4 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| Unit Na | ime: | | | Taxono | my: | | |
| Draina | ge Cla | SS: | | [] Fie | ld Observation | s match map | |
| Remarks | 3 | | | | | | |
| etlan | d De | etermination | | | | | |
| [] Hyd | drophy | rtic Vegetation Pres | ent | [] | This Data Poin | t is a Wetland | |
| | | oils Present | | | | | |
| | | Hydrology Present | | | | | |
| Remarks | | , | | | | | |

Upland

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination** Wetland Data Point: W21 (wetland)

| Applica Investic [X] Do [] Ha [] Is t | ant/Own gator: I normal ve vege he area | Concord Resort, T er: Concord Asso Ethan Stewart circumstances exis tation, soils, or hyd a potential problen | ociates, LP t on the site? rology been distu | rbed? | Cou Stat Con Stat | e: October 13, 2004 inty: Sullivan ie: New York immunity ID: W21 ition ID: Transect 21.1 iID: Wetland | |
|---|---|--|--|---|----------------------------|---|--|
| Veget Domin | | Species | | Common Name | | % Cover | Indicator |
| X | 7 | Athyrium distentifoli Thelypteris novebor | | Fern,Alpine Lady Fern,New York | | | NI FAC |
| <u>Herba</u> X | | Sphagnum sp. Lycopodium obscur | um | Clubmoss,Tree | | | FACU |
| Tree X | 7 | Acer rubrum Suga canadensis | 540/ | Maple,Red Hemlock,Eastern | | | FAC FACU |
| % Spe Remar | | t are OBL, FACW, | or ⊦AC (except F | AU-): 33 | Cowardi | n Classification: | |
| | ecorded [] Stro [] Aer [] Oth Observe Depth of | d Data (describe in eam, Lake, or Tide rial Photograph ner (describe in rem ations: of Surface Water(in to Free Water in Pit to Saturated Soils(i | remarks) Gage arks) .): 0 (in.): 0 | Primary Wetland Hydrold [] Inundated [X] Saturated in upper [X] Water marks [] Drift lines [] Sediment deposit [X] Drainage patterns | r 12 inches | Secondary Hydrolog [] Oxidized root [X] Water-stained [] Local soil sun [] FAC-Neutral t [] Other (explain | channels d leaves vey data test |
| Soils | | | | | | | |
| Depth (in.) 2-0 0-3 3-14 | O A A | Matrix Color GLEY2 2.5/5BG 7.5YR 3/2 7.5YR 4/1 | Mottle / 2nd Mo Color 5YR 4/1 | ottle Abundance Contra common | | | |
|] [[[[x] |] Histos] Histic] Sulfidi] Probal] Reduc] Gleye | Epipedon | | [] Organic [] Listed or [] Listed or [] Other (e | ganic % in Surface | ils List Soils List | |
| Drain | Name: age Cla | iss: | | Taxonomy: [] Field Obser | vations match ma | ap | |
| Remar | | etermination | | | | | |

[X] Hydrophytic Vegetation Present

[X] Hydric Soils Present

[X] Wetland Hydrology Present

Remarks

[X] This Data Point is a Wetland

| | Concord Resort, | - | | | October 15, 2004 | |
|-----------------------|---|-------------------------|------------------------------|------------------------|----------------------|--------------|
| | ner: Concord Ass | sociates, LP | | | ty: Sullivan | |
| | Ethan Stewart | | | | : New York | |
| | al circumstances ex | | | | munity ID: W2 | |
| | etation, soils, or hy | | urbed? | | on ID: Transect 2.1 | |
| | a a potential proble | ili alea? | | PIOLII | D: Upland (south) | |
| Vegetation | | | 0 N | | 0/ 0 | In diameter. |
| Dominant Tree | Species | | Common Name | | % Cover | Indicator |
| X | Tsuga canadensis Acer rubrum | | Hemlock,Easterr Maple,Red | | | FACU FAC |
| % Species the Remarks | at are OBL, FACW, | or FAC (except | FAC-): 0 | Cowardin | Classification: | |
| Hydrology | <u> </u> | | Primary Wetland Hydrol | logy Indicators | Secondary Hydrology | / Indicators |
| , ,, | , ed Data (describe ir | remarks) | [] Inundated | logy maicators | Occordary rrydrology | |
| | tream, Lake, or Tide | | [] Saturated in uppe | er 12 inches | [] Water-stained | |
| | erial Photograph | Jugo | [] Water marks | 01 12 11101100 | [] Local soil surv | |
| | ther (describe in re | marks) | Drift lines | | [] FAC-Neutral to | - |
| | , | ae) | [] Sediment deposit | ts | Other (explain | |
| Field Obser | | | [] Drainage pattern | | | , |
| Depth | n of Surface Water(in to Free Water in P n to Saturated Soils | it(in.): >24 | | | | |
| Remarks | | ` , | | | | |
| 0 '' | | | | | | |
| Soils | | | | | | |
| Depth Hoi (in.) | r. Matrix Color | Mottle / 2nd M Color | Abundance Contr | Texture, ast Structure | oto | |
| 2-0 O | 5YR 3/1 | Coloi | Abundance Conti | | sed leaves | |
| 0-3 A | 2.5YR 2.5/1 | | | Silt | | |
| 3-12 B | 5YR 5/3 | 5YR 6/4 5YR 5/1 | common common | Silt | | |
| Hydric Soils | s Indicators | | | | | |
| [] Histo | osol | | [] Concret | ions | | |
| [] Histic | c Epipedon | | [] High Or | ganic % in Surface I | Layer | |
| [] Sulfid | dic Odor | | [] Organic | Streaking | | |
| [] Prob | able Aquatic Moist | Regime | [] Listed o | n Local Hydric Soils | List | |
| [] Redu | ucing Conditions | | [] Listed o | n National Hydric So | oils List | |
| [] Gley | ed or Low-Chroma | Colors | [] Other (e | explain in remarks) | | |
| Unit Name: | | | Taxonomy: | | | |
| Drainage Cl | lass: | | • | rvations match map | | |
| Remarks | | | | | | |
| Wetland D | etermination | | | | | |
| | | scont | [] This Da | to Doint is a Matles | d | |
| | nytic Vegetation Pre Soils Present | :9 C 111 | [] mis Da | ta Point is a Wetland | u | |
| , | | | | | | |
| Remarks | d Hydrology Presen | L | | | | |
| Upland | | | | | | |

City: Thompson

Job Number: 100309

Routine Wetland Determination Wetland Data Point: W2 (wetland) Project/Site: Concord Resort, Thompson, NY Date: October 15, 2004 Applicant/Owner: Concord Associates, LP County: Sullivan Investigator: Ethan Stewart State: New York [X] Do normal circumstances exist on the site? Community ID: W2 [] Have vegetation, soils, or hydrology been disturbed? Station ID: Transect 2.1 [] Is the area a potential problem area? Plot ID: Wetland (south) Vegetation Dominant Species **Common Name** % Cover Indicator **Herbaceous** Sphagnum sp. **Tree** Tsuga canadensis Hemlock, Eastern **FACU** Acer rubrum Maple, Red FAC % Species that are OBL, FACW, or FAC (except FAC-): 0 Cowardin Classification: Remarks Hydrology Primary Wetland Hydrology Indicators Secondary Hydrology Indicators [] Recorded Data (describe in remarks) [] Inundated [] Oxidized root channels [] Stream, Lake, or Tide Gage [X] Saturated in upper 12 inches [X] Water-stained leaves [] Aerial Photograph [X] Water marks [] Local soil survey data [] Other (describe in remarks) [] Drift lines [] FAC-Neutral test [] Sediment deposits [] Other (explain in remarks) Field Observations: [X] Drainage patterns in wetlands Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): 2 Depth to Saturated Soils(in.): 0 Remarks Soils Hor. Matrix Depth Mottle / 2nd Mottle Texture. Color Color Abundance Contrast Structure, etc. (in.) 0 GLEY2 2.5/5PB decomposed leaves 2-0 0-3 Α 7.5YR 2.5/1 3-10 В GLEY1 4/N GLEY1 5/N few Loamy Fine Sand Hydric Soils Indicators [] Histosol [] Concretions [] High Organic % in Surface Layer [] Histic Epipedon [] Sulfidic Odor [] Organic Streaking [] Listed on Local Hydric Soils List [] Probable Aquatic Moist Regime [] Reducing Conditions [] Listed on National Hydric Soils List [X] Gleyed or Low-Chroma Colors [] Other (explain in remarks) Unit Name: Taxonomy: **Drainage Class:** [] Field Observations match map Remarks **Wetland Determination**

[X] This Data Point is a Wetland

Remarks

[X] Hydrophytic Vegetation Present

[X] Hydric Soils Present[X] Wetland Hydrology Present

| Applicant/Ov Investigator: [X] Do norm [] Have veg [] Is the are Vegetatio Dominant Tree X | Lycopodium obscurum Fagus grandifolia Tsuga canadensis | he site? y been disturbed? a? Common Name Clubmoss,Tree Beech,American Hemlock,Eastern | Date: October 15, 2004 County: Sullivan State: New York Community ID: W2 Station ID: Transect 2.2 Plot ID: Upland (north) **Cover** Indicator FACU FACU FACU FACU |
|---|---|---|--|
| % Species the Remarks | nat are OBL, FACW, or FA | C (except FAC-): 0 Co | owardin Classification: |
| [] S [] A [] C Field Obse Dept Dept | ed Data (describe in rema stream, Lake, or Tide Gage serial Photograph Other (describe in remarks) | [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetland | [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | | |
| Depth Ho (in.) 1-0 O 0-5 A 5-6 B | or. Matrix Mo Color Col 5YR 3/1 5YR 4/3 5YR 5/6 | or Abundance Contrast S c S | exture, itructure, etc. decomposed leaves iilt |
| [] Histo [] Histo [] Sulfi [] Prob [] Red | ic Epipedon idic Odor pable Aquatic Moist Regim ucing Conditions yed or Low-Chroma Colors | [] Listed on National F | Iric Soils List Hydric Soils List marks) |
| Remarks | | • • | · |
| [] Hydrop [] Hydric | Determination hytic Vegetation Present Soils Present d Hydrology Present | []This Data Point is a | Wetland |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W2 (wetland)

| riojeci | /Site: (| Concord Resort, | Thompson, NY | | Date: | October 15, 2004 | |
|---|--|--|---|--|---|------------------------------|--------------|
| Applica | nt/Own | er: Concord Ass | ociates, LP | | Coun | ty: Sullivan | |
| Investigator: Ethan Stewart | | | | | State: New York | | |
| [X] Do normal circumstances exist on the site? | | | | | Comr | munity ID: W2 | |
| [] Hav | e vege | tation, soils, or hyd | drology been dist | urbed? | Statio | on ID: Transect 2.2 | |
| [] Is tl | ne area | a potential probler | m area? | | Plot I | D: Wetland (north) | |
| Veget | | _ | | | | | |
| Domin | ant S | Species | | Common Name | e | % Cover | Indicator |
| <u>Tree</u> X | 7 | Suga canadensis | | Hemlock,Easter | rn | | FACU |
| , | | Acer rubrum | | Maple,Red | | | FAC |
| | | Betula alleghaniens | | Birch, Yellow | | | FAC |
| % Spec | | t are OBL, FACW, | or FAC (except F | FAC-): 0 | Cowardin | Classification: | |
| | | secumed wetland | as hydric soils an | d wetland hydrology are | nrecent and in this | region hemlock and | |
| vege .white | pine ar | e known to grow o | n hummocks in w | u welland riyurology are retlands. | e present and in this | region hemiock and | |
| Hyaro | iogy | J | | Primary Wetland Hydro | ology Indicators | Secondary Hydrology | y Indicators |
| []R | | d Data (describe in | | [] Inundated | | [] Oxidized root | channels |
| | | eam, Lake, or Tide | Gage | [X] Saturated in upp | er 12 inches | [X] Water-stained | |
| | | rial Photograph | | [X] Water marks | | [] Local soil surv | • |
| | [] Oth | ner (describe in ren | narks) | [] Drift lines | | [] FAC-Neutral to | |
| Field | Observa | ations: | | [] Sediment depos | | [] Other (explain | in remarks) |
| | Depth of | of Surface Water(in | n.): 0 | [X] Drainage patterr | ns in wetlands | | |
| | | to Free Water in Pi | , | | | | |
| | • | to Saturated Soils(| ` ' | | | | |
| _ | • | | , - | | | | |
| Rema | | | | | | | |
| IXCIIIC | ITKS | | | | | | |
| | IFKS | | | | | | |
| Soils | | Matrix | Mottle / 2nd M | ottle | Texture | | |
| Soils Depth | | Matrix Color | Mottle / 2nd M Color | ottle Abundance Cont | Texture, | , etc. | |
| Soils | | | | | rast Structure | , etc. | |
| Soils Depth | Hor. | Color | | | rast Structure | • | |
| Soils Depth (in.) 2-0 | Hor. | Color GLEY2 2.5/5PB | 7.5YR 5/2 | Abundance Cont | rast Structure decompo | • | |
| Soils Depth (in.) 2-0 0-5 | Hor. | Color GLEY2 2.5/5PB 5YR 5/1 | Color | Abundance Cont | rast Structure decompo | • | |
| Depth (in.) 2-0 0-5 5-14 | O A B | Color GLEY2 2.5/5PB 5YR 5/1 | 7.5YR 5/2 | Abundance Cont | rast Structure decompo | • | |
| Depth (in.) 2-0 0-5 5-14 | O A B | Color GLEY2 2.5/5PB 5YR 5/1 7.5YR 5/3 | 7.5YR 5/2 | Abundance Cont | rast Structure decompo | • | |
| Depth (in.) 2-0 0-5 5-14 Hydric [| O A B | Color GLEY2 2.5/5PB 5YR 5/1 7.5YR 5/3 | 7.5YR 5/2 | Abundance Cont common few [] Concre | rast Structure decompo | osed leaves | |
| Soils Depth (in.) 2-0 0-5 5-14 Hydric [[| O A B C Soils I Histos Histic Sulfidia | Color GLEY2 2.5/5PB 5YR 5/1 7.5YR 5/3 Indicators ol Epipedon c Odor | 7.5YR 5/2 7.5YR 5/6 | Abundance Cont common few [] Concre [] High O [] Organic | rast Structure decomposit Silt Silt etions rganic % in Surface c Streaking | sed leaves | |
| Soils Depth (in.) 2-0 0-5 5-14 Hydric [[| O A B C Soils I Histos Histic Sulfidia | Color GLEY2 2.5/5PB 5YR 5/1 7.5YR 5/3 Indicators ol Epipedon | 7.5YR 5/2 7.5YR 5/6 | Abundance Cont common few [] Concre [] High O [] Organic | rast Structure decomposit Silt Silt etions rganic % in Surface | sed leaves | |
| Depth (in.) 2-0 0-5 5-14 Hydrid [[| Hor. O A B C Soils I Histos Histic Sulfidid Probal Reduce | Color GLEY2 2.5/5PB 5YR 5/1 7.5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moist Fing Conditions | 7.5YR 5/2 7.5YR 5/6 | Abundance Cont common few [] Concre [] High O [] Organi [] Listed (| trast Structure decomposit Silt Silt stions organic % in Surface c Streaking on Local Hydric Soils on National Hydric S | Layer | |
| Depth (in.) 2-0 0-5 5-14 Hydrid [[| Hor. O A B C Soils I Histos Histic Sulfidid Probal Reduce | Color GLEY2 2.5/5PB 5YR 5/1 7.5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moist F | 7.5YR 5/2 7.5YR 5/6 | Abundance Cont common few [] Concre [] High O [] Organi [] Listed (| trast Structure decomposit Silt Silt stions organic % in Surface c Streaking on Local Hydric Soils | Layer | |
| Depth (in.) 2-0 0-5 5-14 Hydrid [[| Hor. O A B C Soils I Histos Histoc Sulfidia Probal Reduc | Color GLEY2 2.5/5PB 5YR 5/1 7.5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moist Fing Conditions | 7.5YR 5/2 7.5YR 5/6 | Abundance Cont common few [] Concre [] High O [] Organic [] Listed o [] Other (| trast Structure decomposit Silt Silt stions organic % in Surface c Streaking on Local Hydric Soils on National Hydric S | Layer | |
| Depth (in.) 2-0 0-5 5-14 | Hor. O A B C Soils I Histos Histoc Sulfidia Probal Reduc | Color GLEY2 2.5/5PB 5YR 5/1 7.5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moist Fing Conditions d or Low-Chroma (| 7.5YR 5/2 7.5YR 5/6 | Abundance Cont common few [] Concre [] High O [] Organic [] Listed o [] Other (Taxonomy: | etions or Streaking on Local Hydric Soils on National Hydric Soils explain in remarks) | Layer List oils List | |
| Depth (in.) 2-0 0-5 5-14 Hydrid [[[[X [X Unit N Drains | Hor. O A B C Soils I Histos Histic Sulfidia Probal Reduc Gleyec Jame: | Color GLEY2 2.5/5PB 5YR 5/1 7.5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moist Fing Conditions d or Low-Chroma (| 7.5YR 5/2 7.5YR 5/6 | Abundance Cont common few [] Concre [] High O [] Organic [] Listed o [] Other (Taxonomy: | trast Structure decomposit Silt Silt stions organic % in Surface c Streaking on Local Hydric Soils on National Hydric S | Layer List oils List | |
| Depth (in.) 2-0 0-5 5-14 | Hor. O A B C Soils I Histos Histic Sulfidia Probal Reduc Gleyec Jame: | Color GLEY2 2.5/5PB 5YR 5/1 7.5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moist Fing Conditions d or Low-Chroma (| 7.5YR 5/2 7.5YR 5/6 | Abundance Cont common few [] Concre [] High O [] Organic [] Listed o [] Other (Taxonomy: | etions or Streaking on Local Hydric Soils on National Hydric Soils explain in remarks) | Layer List oils List | |
| Depth (in.) 2-0 0-5 5-14 Hydrid [[[[X [X Drain: | Hor. O A B C Soils I Histos Histic Sulfidia Probal Reduc Gleyec Jame: age Cla | Color GLEY2 2.5/5PB 5YR 5/1 7.5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moist Fing Conditions d or Low-Chroma (| 7.5YR 5/2 7.5YR 5/6 | Abundance Cont common few [] Concre [] High O [] Organic [] Listed o [] Other (Taxonomy: | etions or Streaking on Local Hydric Soils on National Hydric Soils explain in remarks) | Layer List oils List | |
| Depth (in.) 2-0 0-5 5-14 Hydrid [[[[X [X Unit N Drain: Remark | Hor. O A B C Soils I Histos Histic Sulfidia Probal Reduce Gleyed Jame: age Cla | Color GLEY2 2.5/5PB 5YR 5/1 7.5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moist Fing Conditions d or Low-Chroma Colsts: | Color 7.5YR 5/2 7.5YR 5/6 Regime Colors | Abundance Cont common few [] Concre [] High O [] Organic [] Listed o [] Other (Taxonomy: [] Field Obse | etions or Streaking on Local Hydric Soils on National Hydric Soils explain in remarks) | Layer S List oils List | |
| Soils Depth (in.) 2-0 0-5 5-14 Hydrid [[[[X [X Unit N Drain: Remark Wetlat [X] H; | Hor. O A B C Soils I Histos Histic Sulfidia Probal Reduce Gleyed Jame: age Cla ss | Color GLEY2 2.5/5PB 5YR 5/1 7.5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moist Fing Conditions d or Low-Chroma (| Color 7.5YR 5/2 7.5YR 5/6 Regime Colors | Abundance Cont common few [] Concre [] High O [] Organic [] Listed o [] Other (Taxonomy: [] Field Obse | etions on Local Hydric Soils on National Hydric Siexplain in remarks) ervations match map | Layer S List oils List | |
| Depth (in.) 2-0 0-5 5-14 Hydrid [[[[X [X] Unit N Drain: Remark Wetlat [X] H; [X] H; | Hor. O A B C Soils I Histos Histoc I Sulfidia Probal Reduce Gleyed Jame: age Cla ss md De ydrophy ydric So | Color GLEY2 2.5/5PB 5YR 5/1 7.5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moist F sing Conditions d or Low-Chroma (| 7.5YR 5/2 7.5YR 5/6 Regime Colors | Abundance Cont common few [] Concre [] High O [] Organic [] Listed o [] Other (Taxonomy: [] Field Obse | etions on Local Hydric Soils on National Hydric Siexplain in remarks) ervations match map | Layer S List oils List | |

| Project/Site: Concord R Applicant/Owner: Concord Investigator: Ethan Stev [X] Do normal circumstan [] Have vegetation, soils [X] Is the area a potential Vegetation | ord Associates, LP vart ces exist on the site? or hydrology been disturbed' | · | Date: October 12, 2004 County: Sullivan State: New York Community ID: W1 Station ID: Transect 1.1 Plot ID: Upland | |
|--|--|--|---|---|
| Dominant Species | | Common Name | % Cover | Indicator |
| Tree X Acer rubrum Tsuga cana | | Maple,Red Hemlock,Eastern | owardin Classification: | FAC FACU |
| Hydrology [] Recorded Data (des | cribe in remarks) [or Tide Gage [aph [e in remarks) [Water(in.): 0 ter in Pit(in.): >24 | ary Wetland Hydrology Indicator] Inundated] Saturated in upper 12 inches] Water marks] Drift lines] Sediment deposits] Drainage patterns in wetlands | [] Oxidized root [] Water-stained [] Local soil sun [] FAC-Neutral t [] Other (explain | channels l leaves vey data est |
| Soils | | | | |
| Depth Hor. Matrix (in.) Color 2-0 O 5YR 3/1 0-2 A 2.5YR 3/2 2-12 B 5YR 4/3 | | oundance Contrast S | exture, tructure, etc. lecomposed leaves ilt ilt | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic [] Reducing Conditi [] Gleyed or Low-Cl | ons | [] Concretions [] High Organic % in S [] Organic Streaking [] Listed on Local Hyd [] Listed on National H | ric Soils List Hydric Soils List | |
| Unit Name: Drainage Class: Remarks | | Taxonomy: [] Field Observations mat | tch map | |
| Wetland Determina [] Hydrophytic Vegetat [] Hydric Soils Present [] Wetland Hydrology Remarks Upland | ion Present | [] This Data Point is a | Wetland | |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W3 (wetland)

| Applicant Investigat [X] Do not [] Have [] Is the | /Owne tor: E ormal veget area | Concord Resort, Ter: Concord Ass Ethan Stewart circumstances existation, soils, or hyd a potential probler | ociates, LP st on the site? rology been distu | ırbed? | County State: Comm Station | October 12, 2004 y: Sullivan New York nunity ID: W3 n ID: Transect 3.1 D: Wetland | |
|---|--|---|---|--|--|--|---------------------------------------|
| Vegetat Dominan | | nacios | | Common Nai | ma | % Cover | Indicator |
| Herbace | | pecies | | Common Nai | ine | % Cover | indicator |
| X | <u>—</u> А Р | thyrium thelyptero Panicum rigidulum Thelypteris noveboo | | Fern,Silvery L Grass,Red-To Fern,New Yor | p Panic | | FAC FACW+ FAC |
| Tree X | A B C | suga canadensis cer rubrum letula alleghaniens arpinus carolinian are OBL, FACW, | а | Hemlock,East Maple,Red Birch,Yellow Hornbeam,An | nerican | Classification: | FACU FAC FAC FAC |
| Remarks | | | | | | | |
| [[Field Of D D | orded] Stre] Aer] Oth oserva epth cepth tepth | Data (describe in eam, Lake, or Tide ial Photograph er (describe in ren ations: of Surface Water(ir o Free Water in Pi o Saturated Soils(i | remarks) Gage narks) i.): 0 t(in.): 0 | Primary Wetland Hyd [] Inundated [X] Saturated in up [X] Water marks [] Drift lines [] Sediment depute [X] Drainage patter [X] Drainage patter [X] Prainage patter [X | pper 12 inches | Secondary Hydrolog [] Oxidized root [] Water-stained [] Local soil surv [] FAC-Neutral t [] Other (explain | channels leaves rey data est |
| Soils | | | | | | | |
| Depth | Hor | Matrix | Mottle / 2nd Mo | ottlo | Texture, | | |
| (in.) | Π01. | Color | Color | | ntrast Structure, | etc. | |
| 1-0 | 0 | GLEY2 2.5/5PB | | | | sed leaves | |
| 0-3 3-18 | A B | 5YR 3/1 5YR 4/3 | 5YR 4/1 5YR 5/6 | common few | Silt | | |
| [] H [] S [] F [] F | Histoso Histic I Sulfidio Probak Reduc | ndicators ol Epipedon c Odor ole Aquatic Moist F ing Conditions d or Low-Chroma O | Regime | [] Cond [] High [] Orga [] Listed [] Listed | cretions Organic % in Surface L nic Streaking d on Local Hydric Soils d on National Hydric So r (explain in remarks) | List | |
| Unit Na Drainag | | ss: | | Taxonomy: [] Field Ob | oservations match map | | |
| Remarks | | | | | | | |
| [X] Hyd [X] Hyd | rophy ric So land H | ttermination tic Vegetation Pres ils Present Hydrology Present | sent | [X] This | Data Point is a Wetland | ı | |

| Applicant/Owner: Investigator: Etha [X] Do normal circu [] Have vegetation [X] Is the area a po Vegetation | cord Resort, Thompson, NY Concord Associates, LP n Stewart umstances exist on the site? n, soils, or hydrology been disturbed? stential problem area? | | Date: October 12, 2004 County: Sullivan State: New York Community ID: W20 Station ID: Transect 20.1 Plot ID: Upland | |
|--|---|--|--|--------------------------------------|
| Fagus | rubrum s grandifolia OBL, FACW, or FAC (except FAC-): | Maple,Red Beech,American 100 Cov | % Cover | FAC FACU |
| [] Stream, [] Aerial P [] Other (c Field Observation Depth of Su Depth to Fre | a (describe in remarks) [] Lake, or Tide Gage [] hotograph [] describe in remarks) [] s. [] | ry Wetland Hydrology Indicators Inundated Saturated in upper 12 inches Water marks Drift lines Sediment deposits Drainage patterns in wetlands | Secondary Hydrology [] Oxidized root of a gradient of the secondary of the secondary Hydrology [] Water-stained [] Local soil surve [] FAC-Neutral te [] Other (explain) | channels leaves ey data est |
| 0-3 A 5YF | or Color Abu R 3/1 R 5/4 YR 5/4 | undance Contrast Str | | |
| [] Reducing (| or quatic Moist Regime | [] High Organic % in Su [] Organic Streaking [] Listed on Local Hydri [] Listed on National Hy [] Other (explain in rema | c Soils List dric Soils List | |
| Unit Name: Drainage Class: Remarks | | Taxonomy: [] Field Observations matc | h map | |
| Wetland Deter [] Hydrophytic V [] Hydric Soils P [] Wetland Hydromarks Upland | egetation Present resent | [] This Data Point is a V | Vetland | |

Job Number: 100309 **Data Form** City: Thompson

Routine Wetland Determination Wetland Data Point: W20 (wetland)

| Project/Site: | Concord Resort | , Thompson, NY | | Da | te: October 12, 2004 | | |
|--|-----------------------|-----------------------|-------------------|-------------------------|-------------------------|--------------|--|
| Applicant/Owner: Concord Associates, LP | | | | | County: Sullivan | | |
| Investigator: | Ethan Stewart | | Sta | ate: New York | | | |
| [X] Do norma | al circumstances e | xist on the site? | Community ID: W20 | | | | |
| [] Have vegetation, soils, or hydrology been disturbed? | | | urbed? | Sta | ation ID: Transect 20.1 | | |
| [X] Is the area a potential problem area? | | | | Plo | ot ID: Wetland | | |
| /egetatio | n | | | | | | |
| Dominant | Species | | Common N | lame | % Cover | Indicator | |
| Herbaceous | | | | | | | |
| X | Spiraea alba | | | veet,Narrow-Leaf | | FACW+ | |
| | Carex granularis | | Sedge,Mea | dow | | FACW+ | |
| <u>Shrub</u> | Iris pseudacorus | | Iris,Yellow | | | OBL | |
| <u>Om ab</u> | Vaccinium coryml | bosum | Blueberry, F | lighbush | | FACW- | |
| <u>Tree</u> | | | • | ŭ | | | |
| X | Acer rubrum | | Maple,Red | 0 | P. Olassification | FAC | |
| | nat are OBL, FACW | /, or FAC (except I | -AC-): 100 | Coward | lin Classification: | | |
| Remarks | | | | | | | |
| | | | | | | | |
| lydrology | y | | Primary Wetland H | lydrology Indicators | Secondary Hydrology | y Indicators | |
| [] Record | ed Data (describe i | in remarks) | [] Inundated | . | [X] Oxidized root | | |
| | stream, Lake, or Tic | | | upper 12 inches | [X] Water-stained | | |
| | erial Photograph | J | [X] Water mark | | [] Local soil surv | | |
| | Other (describe in re | emarks) | Drift lines | | FAC-Neutral to | • | |
| | , | , | [] Sediment de | eposits | Other (explain | in remarks) | |
| Field Obser | | | | tterns in wetlands | | , | |
| | h of Surface Water | ` ' | | | | | |
| | h to Free Water in | ` ' | | | | | |
| Deptl | h to Saturated Soils | s(in.): >20 | | | | | |
| Remarks | | | | | | | |
| | | | | | | | |
| Soils | | | | | | | |
| | or. Matrix | Mottle / 2nd M | ottle | Textur | a | | |
| (in.) | Color | Color | | | ire, etc. | | |
| 1-0 O | 5YR 3/1 | | | | , | | |
| 0-1 A | 2.5YR 5/1 | | | Silt | | | |
| 1-14 B | 2.5YR 5/2 | 5YR 5/6 | common | Silt | | | |
| | | 2.5YR 4/1 | few | | | | |
| Hydric Soil: | s Indicators | | | | | | |
| [] Histo | | | 1.00 | ncretions | | | |
| | c Epipedon | | | h Organic % in Surfac | o Lavor | | |
| | dic Odor | | | ganic Streaking | c Layer | | |
| | pable Aquatic Moist | t Pogimo | | ted on Local Hydric So | sile Liet | | |
| | | . ixegiiile | | ted on National Hydric | | | |
| | ucing Conditions | 0-1 | | • | | | |
| [] Gley | ved or Low-Chroma | COIOIS | [] Oti | ner (explain in remarks | i) | | |
| Unit Name: | | | Taxonom | y: | | | |
| Drainage C | lass: | | [] Field | Observations match m | ар | | |
| • | | | | | • | | |
| Remarks | | | | | | | |
| | | | | | | | |
| Vetland D | Determination | 1 | | | | | |
| [X] Hydrop | hytic Vegetation Pr | resent | [X] Th | is Data Point is a Wetl | and | | |
| | Soils Present | | | | | | |
| | d Hydrology Preser | nt | | | | | |
| | , | | | | | | |
| Remarks | | | | | | | |
| Remarks | | | | | | | |

| Project/Site: | Concord Resort, | Thompson, NY | | Date | e: October 12, 2004 | | |
|---|--|------------------------|---|---------------------------|-----------------------|---------------------|--|
| Applicant/Owner: Concord Associates, LP | | | | | County: Sullivan | | |
| | Ethan Stewart | | | | e: New York | | |
| | al circumstances exi | | | | nmunity ID: W6 | | |
| | getation, soils, or hyd | | turbed? | | ion ID: Transect 6.1 | | |
| | ea a potential probler | m area? | | Plot | ID: Upland | | |
| Vegetatio Dominant | n Species | | Common N | lame | % Cover | Indicator | |
| Tree | | | | | | | |
| X | Tsuga canadensis Betula alleghaniens Pinus strobus | sis | Hemlock,Ea Birch,Yellov Pine,Easter | V | | FACU FAC FACU | |
| % Species t | hat are OBL, FACW, | or FAC (except | | | n Classification: | 1 700 | |
| Remarks | | (-1117) | | | | | |
| Hydrolog | у | | Primary Wetland H | lydrology Indicators | Secondary Hydrology | / Indicators | |
| [] Record | led Data (describe in | remarks) | [] Inundated | | [] Oxidized root | channels | |
| | Stream, Lake, or Tide | Gage | [] Saturated in | upper 12 inches | [] Water-stained | leaves | |
| [] A | Aerial Photograph | | [] Water marks | 3 | [] Local soil surv | ey data | |
| [](| Other (describe in ren | narks) | [] Drift lines | | [] FAC-Neutral to | est | |
| Field Obse | ervations: | | [] Sediment de | eposits | [] Other (explain | in remarks) | |
| | th of Surface Water(in | a)· 0 | [] Drainage pa | tterns in wetlands | | | |
| | th to Free Water in Pi | | | | | | |
| • | th to Saturated Soils(| ` ' | | | | | |
| Бері | in to Saturated Solis(| 111.). >24 | | | | | |
| Remarks | | | | | | | |
| Soils | | | | | | | |
| | or. Matrix | Mottle / 2nd N | /lottle | Texture, | | | |
| (in.) | Color | Color | | Contrast Structure | | | |
| 2-0 O | 5YR 3/1 | | | decomp | osed leaves | | |
| 0-4 A | 5YR 4/4 | | | Silt | | | |
| 4-14 B | 7.5YR 4/3 | 7.5YR 5/6 7.5YR 4/2 | common few | Silt | | | |
| Hydric Soil | ls Indicators | | | | | | |
| [] Hist | osol | | []Co | ncretions | | | |
| [] Hist | ic Epipedon | | [] Hig | h Organic % in Surface | Layer | | |
| [] Sulf | idic Odor | | | ganic Streaking | • | | |
| [] Prol | bable Aquatic Moist F | Regime | | ted on Local Hydric Soil | ls List | | |
| []Red | lucing Conditions | | []Lis | ted on National Hydric S | Soils List | | |
| | yed or Low-Chroma (| Colors | | ner (explain in remarks) | | | |
| Unit Name | • | | Taxonom | v: | | | |
| Drainage C | | | | Observations match ma | р | | |
| Remarks | | | | · | • | | |
| Wetland I | Determination | | | | | | |
| | hytic Vegetation Pre | sent | []Th | is Data Point is a Wetlar | nd | | |
| | Soils Present | Joint | [] [] | o Data i Onit is a Wellal | IU | | |
| | | | | | | | |
| Remarks | d Hydrology Present | | | | | | |
| | | | | | | | |
| Upland | | | | | | | |

Job Number: 100309 City: Thompson

Wetland Data Point: W6 (wetland)

| Project/Site | e: Concord Resort, | Thompson, NY | | Date: 0 | October 12, 2004 | | | |
|--|-------------------------|---------------------|-----------------------------------|--------------------------|-----------------------------------|----------------|--|--|
| Applicant/C | Owner: Concord As | sociates, LP | County | County: Sullivan | | | | |
| Investigato | r: Ethan Stewart | | | State: | State: New York | | | |
| [X] Do normal circumstances exist on the site? | | | | Commi | unity ID: W6 | | | |
| [] Have ve | egetation, soils, or hy | drology been distu | rbed? | Station | ID: Transect 6.1 | | | |
| [X] Is the a | rea a potential proble | em area? | | Plot ID: | Wetland | | | |
| Vegetation | on | | | | | | | |
| Dominant | | | Common Name | e | % Cover | Indicator | | |
| <u>Herbaceou</u> | | | | | | | | |
| Tuo | Athyrium thelypter | roides | Fern,Silvery Lac | dy | | FAC | | |
| <u>Tree</u> X | Tsuga canadensis | | Hemlock,Easter | rn | | FACU | | |
| Λ | Pinus strobus | | Pine,Eastern W | | | FACU | | |
| % Species | that are OBL, FACW | , or FAC (except F. | AC-): 0 | Cowardin C | lassification: | | | |
| Remarks | | | | | | | | |
| Vegetation | on assumed wetland, | as hydric soils and | wetland hydrology are | e present and in this re | gion hemlock and | | | |
| Hydrolog | are known to grow | on hummocks in we | etlands. Primary Wetland Hydro | ology Indicators | Secondary Hydrolog | av Indicators | | |
| | rded Data (describe i | | Inundated | nogy mulcators | Secondary Hydrolog Oxidized root | | | |
| | Stream, Lake, or Tid | , | [X] Saturated in upp | oer 12 inches | [X] Water-staine | | | |
| | Aerial Photograph | o Jago | [X] Water marks | 761 12 III01163 | [] Local soil sur | | | |
| | Other (describe in re | marke) | Drift lines | | FAC-Neutral | • | | |
| | Other (describe in re | marks) | Sediment depos | rite | Other (explain | | | |
| Field Obs | ervations: | | [X] Drainage patterr | | [] Other (explai | ii iii romanoj | | |
| Dep | oth of Surface Water | in.): 0 | [X] Drainage pattern | is in wellands | | | | |
| Dep | oth to Free Water in F | Pit(in.): 0 | | | | | | |
| Dep | oth to Saturated Soils | s(in.): 0 | | | | | | |
| Remarks | | | | | | | | |
| Remarks | | | | | | | | |
| Soils | | | | | | | | |
| | lor. Matrix | Mottle / 2nd Mo | ittle | Texture, | | | | |
| (in.) | Color | Color | Abundance Cont | | etc. | | | |
| 2-0 C | GLEY2 2.5/5PB | | | decompos | | | | |
| 0-4 A | 5YR 5/4 | 5YR 4/2 | | Silt | | | | |
| 4-14 E | 3 5YR 5/3 | 5YR 5/2 | few | Silt | | | | |
| | | 5YR 5/8 | few | | | | | |
| Hydric Sc | oils Indicators | | | | | | | |
| | stosol | | [] Concre | etions | | | | |
| [] His | stic Epipedon | | [] High O | rganic % in Surface La | ver | | | |
| | Ifidic Odor | | | c Streaking | • | | | |
| | obable Aquatic Moist | Regime | | on Local Hydric Soils L | ist | | | |
| | ducing Conditions | J | | on National Hydric Soil | | | | |
| | eyed or Low-Chroma | Colors | | explain in remarks) | | | | |
| | | 00.0.0 | | (57,p.a) | | | | |
| Unit Nam | | | Taxonomy: | | | | | |
| Drainage | Class: | | [] Field Obse | ervations match map | | | | |
| Remarks | | | | | | | | |
| | | | | | | | | |
| Wetland | Determination | 1 | | | | | | |
| | phytic Vegetation Pr | | [X] This Da | ata Point is a Wetland | | | | |
| | Soils Present | 000111 | [A] 11113 D | ata i onitio a vvotidilu | | | | |
| | nd Hydrology Preser | ıt | | | | | | |
| Remarks | na riyarology r reser | | | | | | | |
| · tomanto | | | | | | | | |

| Applicant/Ov Investigator: [X] Do norm [] Have veç [X] Is the are | Concord Resort, T wner: Concord Asso Ethan Stewart al circumstances exis getation, soils, or hyd ea a potential problen | ociates, LP st on the site? rology been distur | bed? | | Cour State Com Stati | : October 22, 2004 http: Sullivan e: New York munity ID: W52 on ID: Transect 52.1 ID: Upland (west) | |
|--|--|--|---|--|-------------------------------------|---|--|
| Vegetatio | | | 0 | - M | | 0/ 0 | lo di catan |
| Dominant Herbaceous | Species | | Commoi | n Name | | % Cover | Indicator |
| X Tree | Aster umbellatus Carex blanda | | Aster,Fla Sedge,W | t-Top White /oodland | | | FACW FAC |
| <u>X</u> | Acer rubrum Pinus strobus Fagus grandifolia | | Maple,Re Pine,Eas Beech,A | tern White | | | FAC FACU FACU |
| % Species the Remarks | nat are OBL, FACW, | or FAC (except FA | AC-): 100 | | Cowardin | Classification: | |
| [] S [] A [] C Field Obse Dept Dept | ed Data (describe in stream, Lake, or Tide lerial Photograph Other (describe in rem | remarks) Gage narks) a.): 0 t(in.): >24 | [] Water ma [] Drift lines [] Sediment | d I in upper 12 in arks | ches | Secondary Hydrolog [] Oxidized root [] Water-stained [] Local soil sur [] FAC-Neutral [] Other (explain | c channels d leaves vey data test |
| Soils | | | | | | | |
| | ur Motriy | Mottle / Ond Mot | #In | | Touturo | | |
| Depth Ho | or. Matrix Color | Mottle / 2nd Mot Color | Abundance | Contrast | Texture, Structure | e. etc. | |
| 1-0 O 0-4 A 4-12 B | 5YR 3/1 2.5YR 3/3 5YR 4/4 | 2.5YR 2.5/1 | few | | | osed leaves | |
| [] Histo [] Histo [] Sulfo [] Prob [] Red | s Indicators psol c Epipedon dic Odor pable Aquatic Moist R ucing Conditions red or Low-Chroma C | | [] [] [] | Concretions High Organic % Organic Streak Listed on Local Listed on Natio Other (explain | ing Hydric Soils nal Hydric S | s List | |
| Unit Name: Drainage C Remarks | | | Taxono [] Fie | omy: ld Observations | s match map |) | |
| | | | | | | | |
| [] Hydrop [] Hydric | Determination hytic Vegetation Pres Soils Present d Hydrology Present | sent | [] | This Data Poin | t is a Wetlan | nd | |

Job Number: 100309 City: Thompson

Wetland Data Point: W52 (wetland)

| Project/S | Site: Concord Reso | rt, Thompson, NY | | | Date: October 22, 2004 | | | |
|------------------|----------------------------|---------------------|-----------------------|-------------------|---------------------------|---------------------|---------------|--|
| Applicant | t/Owner: Concord | Associates, LP | | County: Sullivan | | | | |
| Investiga | tor: Ethan Stewart | | | | State: New York | | | |
| [X] Do no | ormal circumstances | exist on the site? | | | Commu | inity ID: W52 | | |
| [] Have | vegetation, soils, or | hydrology been dis | sturbed? | | Station ID: Transect 52.1 | | | |
| [X] Is the | e area a potential pro | blem area? | | | Plot ID: | Wetland (west) | | |
| Vegetat | tion | | | | | | | |
| Dominar | | | Commo | n Namo | | % Cover | Indicator | |
| Herbace | | | Commo | i Name | | 70 COVE | indicator | |
| X | Aster umbellatu | S | Aster.Fla | t-Top White | | | FACW | |
| | Carex granularis | S | Sedge,M | | | | FACW+ | |
| | Euonymus ame | | | ry-Bush,Americ | can | | FAC | |
| _ | Solidago austrir | na | Golden-F | ₹od | | | OBL | |
| <u>Tree</u> X | A = = = = | | Manla D | | | | E40 | |
| λ | Acer rubrum Betula alba | | Maple,Ro Birch,Wh | | | | FAC FAC+ | |
| | Fagus grandifol | ia | Beech | .ite | | | FAC+ | |
| | Pinus strobus | ıa | | tern White | | | FACU | |
| % Specie | es that are OBL, FAC | W, or FAC (except | | | Cowardin C | lassification: | | |
| Remarks | | , , , | , | | | | | |
| | | | | | | | | |
| ا معامرا | 201 | | | | | | | |
| Hydrolo | ogy | | Primary Wetland | d Hydrology Ind | licators | Secondary Hydrolog | y Indicators | |
| []Rec | corded Data (describe | e in remarks) | [X] Inundated | Ł | | [] Oxidized root | channels | |
| [|] Stream, Lake, or 7 | Γide Gage | [X] Saturated | d in upper 12 inc | ches | [X] Water-stained | lleaves | |
| Ī |] Aerial Photograph | 1 | [X] Water ma | arks | | [] Local soil surv | vey data | |
| - |] Other (describe in | | [X] Drift lines | | | [] FAC-Neutral t | • | |
| | 1 (| , | [] Sediment | | | Other (explain | | |
| Field Ol | bservations: | | | patterns in wet | lande | [] Other (explain | i iii romanoj | |
| D | epth of Surface Wat | er(in.): 0 | [X] Drainage | patterns in wet | iaius | | | |
| D | epth to Free Water i | n Pit(in.): 2 | | | | | | |
| D | epth to Saturated So | oils(in.): 0 | | | | | | |
| | • | , | | | | | | |
| Remark | KS | | | | | | | |
| | | | | | | | | |
| Soils | | | | | | | | |
| Depth | Hor. Matrix | Mottle / 2nd I | Mottle | | Texture, | | | |
| (in.) | Color | Color | Abundance | Contrast | Structure, e | etc. | | |
| 0-14 | Ag 5YR 4/1 | 5YR 5/8 | many | distinct | Silty Clay | | | |
| | · · | | · | | | | | |
| | | | | | | | | |
| Hydric S | Soils Indicators | | | | | | | |
| [] | Histosol | | [] | Concretions | | | | |
| [] | Histic Epipedon | | [] | High Organic % | in Surface La | yer | | |
| 1 18 | Sulfidic Odor | | 1 1 | Organic Streaki | ina | • | | |
| | Probable Aquatic Mo | ist Regime | | Listed on Local | • | ist | | |
| | Reducing Conditions | | | Listed on Natio | | | | |
| | • | | | | • | 3 LIST | | |
| [X] | Gleyed or Low-Chror | lia Colors | l J | Other (explain i | ii ieiliaiks) | | | |
| Unit Na | ime: | | Taxono | omy: | | | | |
| | ge Class: | | | ld Observations | s match man | | | |
| | ,- 3.000. | | []110 | | ato map | | | |
| Remarks | ; | | | | | | | |
| | | | | | | | | |
| Wetland | d Determination | on | | | | | | |
| | rophytic Vegetation | | [V1 | This Data Baint | tie a Motland | | | |
| | . , | 1 169611f | [X] | This Data Point | is a vveiland | | | |
| | dric Soils Present | | | | | | | |
| | tland Hydrology Pres | sent | | | | | | |
| Remarks | 1 | | | | | | | |

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been divided by the state of the site? | Sturbed? | | | | | |
|---|---|---|--|--|--|--|
| [X] Is the area a potential problem area? | Р | lot ID: Upland (east) | | | | |
| Vegetation Dominant Species | Common Name | % Cover | Indicator | | | |
| Dominant Species Tree | Common Name | 76 COVE | indicator | | | |
| Pinus strobus | Pine,Eastern White | 100 | FACU | | | |
| % Species that are OBL, FACW, or FAC (excepted Remarks) | t FAC-): 0 Cowa | rdin Classification: | | | | |
| Hydrology | Primary Wetland Hydrology Indicators | Secondary Hydrolog | v Indicators | | | |
| [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | [] Oxidized root [] Water-stained [] Local soil sun [] FAC-Neutral t [] Other (explain | channels I leaves vey data test | | | |
| Soils | | | | | | |
| Depth Hor. Matrix Mottle / 2nd Color 0-12 A 10R 4/4 | | ıre, ture, etc. | | | | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors | [] Concretions [] High Organic % in Surfa [] Organic Streaking [] Listed on Local Hydric S [] Listed on National Hydr [] Other (explain in remark | Soils List ic Soils List | | | | |
| Unit Name: Drainage Class: | Taxonomy: [] Field Observations match i | map | | | | |
| Remarks Rock atr 12" | | | | | | |
| Wetland Determination | | | | | | |
| [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a We | tland | | | | |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W52 (wetland)

| Danie at / | 0:1- | 0 | . The | | D-1 | 0-1-1 | | | |
|--|--|---|---|--|---|--------------------------------------|--------------|--|--|
| Project/Site: Concord Resort, Thompson, NY | | | | | | Date: October 22, 2004 | | | |
| Applicant/Owner: Concord Associates, LP | | | | | | County: Sullivan | | | |
| | | Ethan Stewart | exist on the site? | | e: New York nmunity ID: W52 | | | | |
| | | | nydrology been dis | cturbod? | | on ID: Transect 52.2 | | | |
| | _ | a potential prob | | starbea : | | ID: Wetland (east) | | | |
| Vegeta | | | icin arca: | | 1 101 | ib. Welland (east) | | | |
| Domina | | Species | | Common Name | | % Cover | Indicator | | |
| Herbac | | ppecies | | Common Name | | /6 COVE | mulcator | | |
| X | | Aster umbellatus | | Aster,Flat-Top White |) | | FACW | | |
| | | Carex granularis | | Sedge,Meadow | | | FACW+ | | |
| Church | 5 | Solidago austrina | 9 | Golden-Rod | | | OBL | | |
| <u>Shrub</u> | , | Vaccinium corym | phosum | Blueberry, Highbush | | | FACW- | | |
| Tree | , | vaccinium corym | ibosum | Bideberry, riiginbusir | | | 1 AOW | | |
| | | Pinus strobus | | Pine,Eastern White | | | FACU | | |
| • | | it are OBL, FACV | N, or FAC (except | t FAC-): 100 | Cowardir | Classification: | | | |
| Remark | S | | | | | | | | |
| | | | | | | | | | |
| Hydro | logy | | | Primary Wetland Hydrology | Indicators | Secondary Hydrology | y Indicators | | |
| [] Re | ecorde | d Data (describe | in remarks) | [] Inundated | | [] Oxidized root | | | |
| | | eam, Lake, or Ti | , | [X] Saturated in upper 1 | 2 inches | [X] Water-stained | | | |
| | | rial Photograph | S | [X] Water marks | | [] Local soil surv | | | |
| | | ner (describe in r | emarks) | Drift lines | | FAC-Neutral to | • | | |
| | , | | | Sediment deposits | | [] Other (explain in remarks) | | | |
| Field Observations: | | | | [X] Drainage patterns in | wetlands | | , | | |
| | | | | [21] Diamage patterne in | | | | | |
| | | of Surface Wate | ` ' | | | | | | |
| | | of Surface Wate to Free Water in | ` ' | | | | | | |
| I | Depth | | Pit(in.): 3 | | | | | | |
|] | Depth : | to Free Water in | Pit(in.): 3 | | | | | | |
| I | Depth : | to Free Water in | Pit(in.): 3 | | | | | | |
| Rema | Depth : | to Free Water in | Pit(in.): 3 | | | | | | |
| Remai | Depth : Depth : | to Free Water in to Saturated Soi | Pit(in.): 3 ls(in.): 0 | Mottle | Toyturo | | | | |
| Remai | Depth : Depth : | to Free Water in to Saturated Soi Matrix | Pit(in.): 3 Is(in.): 0 | | Texture, Structur | | | | |
| Remai | Depth : Depth : | to Free Water in to Saturated Soi | Pit(in.): 3 ls(in.): 0 | Mottle Abundance Contrast | Texture, Structur Silt | | | | |
| Remai Soils Depth (in.) | Depth Depth rks | to Free Water in to Saturated Soi Matrix Color | Pit(in.): 3 Is(in.): 0 | | Structur Silt | e, etc. | | | |
| Remail Soils Depth (in.) 0-4 | Depth : Depth : rks Hor. | to Free Water in to Saturated Soi Matrix Color 2.5YR 4/3 | Pit(in.): 3 Is(in.): 0 Mottle / 2nd Color | Abundance Contrast | Structur | e, etc. | | | |
| Remai Soils Depth (in.) 0-4 4-16 | Depth Depth rks Hor. A B | Matrix Color 2.5YR 4/3 2.5YR 4/3 | Pit(in.): 3 Is(in.): 0 Mottle / 2nd Color 2.5YR 4/1 | Abundance Contrast common | Structur Silt | e, etc. | | | |
| Remail Soils Depth (in.) 0-4 4-16 Hydric | Depth Depth rks Hor. A B | Matrix Color 2.5YR 4/3 2.5YR 4/3 | Pit(in.): 3 Is(in.): 0 Mottle / 2nd Color 2.5YR 4/1 | Abundance Contrast common few | Structur Silt Silty Cla | e, etc. | | | |
| Remain Soils Depth (in.) 0-4 4-16 Hydrice | Depth Depth rks Hor. A B Soils A Histos | Matrix Color 2.5YR 4/3 2.5YR 4/3 | Pit(in.): 3 Is(in.): 0 Mottle / 2nd Color 2.5YR 4/1 | Abundance Contrast common few [] Concretions | Structur Silt Silty Cla | e, etc. y | | | |
| Remail Soils Depth (in.) 0-4 4-16 Hydrice [] | Depth Depth Person | Matrix Color 2.5YR 4/3 2.5YR 4/3 Indicators sol Epipedon | Pit(in.): 3 Is(in.): 0 Mottle / 2nd Color 2.5YR 4/1 | Abundance Contrast common few [] Concretions [] High Organ | Structur Silt Silty Cla | e, etc. y | | | |
| Remail Soils Depth (in.) 0-4 4-16 Hydrice [] [] | Depth Depth Depth Research | Matrix Color 2.5YR 4/3 2.5YR 4/3 Indicators sol Epipedon ic Odor | Pit(in.): 3 Is(in.): 0 Mottle / 2nd Color 2.5YR 4/1 2.5YR 4/8 | Abundance Contrast common few [] Concretions [] High Organ [] Organic Str | Structur Silt Silty Cla Silty Cla Sic % in Surface eaking | e, etc. y Layer | | | |
| Remail Soils Depth (in.) 0-4 4-16 Hydrice [] [] [X] | Depth Depth Depth Research | Matrix Color 2.5YR 4/3 2.5YR 4/3 Indicators sol Epipedon ic Odor ble Aquatic Mois | Pit(in.): 3 Is(in.): 0 Mottle / 2nd Color 2.5YR 4/1 2.5YR 4/8 | Abundance Contrast common few [] Concretions [] High Organ [] Organic Str [] Listed on Lo | Structur Silt Silty Cla Silty Cla Sic % in Surface eaking ocal Hydric Soil | e, etc. y Layer s List | | | |
| Remail Soils Depth (in.) 0-4 4-16 Hydrice [] [] [X] [] | Depth Depth Depth Reduced Post Depth Post De | Matrix Color 2.5YR 4/3 2.5YR 4/3 Indicators sol Epipedon ic Odor ble Aquatic Moiscing Conditions | Mottle / 2nd Color 2.5YR 4/1 2.5YR 4/8 | Abundance Contrast common few [] Concretions [] High Organ [] Organic Str [] Listed on N | Structur Silt Silty Cla Sic % in Surface eaking ocal Hydric Soil ational Hydric S | e, etc. y Layer s List | | | |
| Remail Soils Depth (in.) 0-4 4-16 Hydrice [] [] [X] [] | Depth Depth Depth Reduced Post Depth Post De | Matrix Color 2.5YR 4/3 2.5YR 4/3 Indicators sol Epipedon ic Odor ble Aquatic Mois | Mottle / 2nd Color 2.5YR 4/1 2.5YR 4/8 | Abundance Contrast common few [] Concretions [] High Organ [] Organic Str [] Listed on Lo | Structur Silt Silty Cla Sic % in Surface eaking ocal Hydric Soil ational Hydric S | e, etc. y Layer s List | | | |
| Remail Soils Depth (in.) 0-4 4-16 Hydrice [] [] [X] [] | Depth Depth Reduced Gleyer | Matrix Color 2.5YR 4/3 2.5YR 4/3 Indicators sol Epipedon ic Odor ble Aquatic Moiscing Conditions | Mottle / 2nd Color 2.5YR 4/1 2.5YR 4/8 | Abundance Contrast common few [] Concretions [] High Organ [] Organic Str [] Listed on N | Structur Silt Silty Cla Sic % in Surface eaking ocal Hydric Soil ational Hydric S | e, etc. y Layer s List | | | |
| Remain Soils Depth (in.) 0-4 4-16 Hydric [] [] [X] [] Unit N | Depth Depth Reduced Gleyer | Matrix Color 2.5YR 4/3 2.5YR 4/3 Indicators sol Epipedon ic Odor ble Aquatic Mois cing Conditions d or Low-Chroma | Mottle / 2nd Color 2.5YR 4/1 2.5YR 4/8 | Abundance Contrast common few [] Concretions [] High Organ [] Organic Str [] Listed on Lo [] Listed on N [] Other (explain | Structur Silt Silty Cla Sic % in Surface eaking ocal Hydric Soil ational Hydric Sain in remarks) | e, etc. y Layer s List Soils List | | | |
| Remail Soils Depth (in.) 0-4 4-16 Hydric [] [] [X] [] Unit N Draina | Depth Depth Depth Popular Reduction Gleyer age Clarks | Matrix Color 2.5YR 4/3 2.5YR 4/3 Indicators sol Epipedon ic Odor ble Aquatic Mois cing Conditions d or Low-Chroma | Mottle / 2nd Color 2.5YR 4/1 2.5YR 4/8 | Abundance Contrast common few [] Concretions [] High Organ [] Organic Str [] Listed on Lo [] Listed on N [] Other (explain | Structur Silt Silty Cla Sic % in Surface eaking ocal Hydric Soil ational Hydric Sain in remarks) | e, etc. y Layer s List Soils List | | | |
| Remain Soils Depth (in.) 0-4 4-16 Hydrice [] [] [X] [] Unit N | Depth Depth Depth Popular Reduction Gleyer age Clarks | Matrix Color 2.5YR 4/3 2.5YR 4/3 Indicators sol Epipedon ic Odor ble Aquatic Mois cing Conditions d or Low-Chroma | Mottle / 2nd Color 2.5YR 4/1 2.5YR 4/8 | Abundance Contrast common few [] Concretions [] High Organ [] Organic Str [] Listed on Lo [] Listed on N [] Other (explain | Structur Silt Silty Cla Sic % in Surface eaking ocal Hydric Soil ational Hydric Sain in remarks) | e, etc. y Layer s List Soils List | | | |
| Remail Soils Depth (in.) 0-4 4-16 Hydrice [] [] [X] [] Unit N Draina Remark | Depth | Matrix Color 2.5YR 4/3 2.5YR 4/3 Indicators sol Epipedon ic Odor olble Aquatic Moiscing Conditions d or Low-Chroma | Pit(in.): 3 Is(in.): 0 Mottle / 2nd Color 2.5YR 4/1 2.5YR 4/8 St Regime a Colors | Abundance Contrast common few [] Concretions [] High Organ [] Organic Str [] Listed on Lo [] Listed on N [] Other (explain | Structur Silt Silty Cla Sic % in Surface eaking ocal Hydric Soil ational Hydric Sain in remarks) | e, etc. y Layer s List Soils List | | | |
| Remail Soils Depth (in.) 0-4 4-16 Hydrice [] [] [X] [] Unit N Draina Remark | Depth | Matrix Color 2.5YR 4/3 2.5YR 4/3 Indicators sol Epipedon ic Odor ble Aquatic Mois cing Conditions d or Low-Chroma | Pit(in.): 3 Is(in.): 0 Mottle / 2nd Color 2.5YR 4/1 2.5YR 4/8 St Regime a Colors | Abundance Contrast common few [] Concretions [] High Organ [] Organic Str [] Listed on Lo [] Listed on N [] Other (explain | Structur Silt Silty Cla Sic % in Surface eaking ocal Hydric Soil ational Hydric Sain in remarks) | e, etc. y Layer s List Soils List | | | |
| Remail Soils Depth (in.) 0-4 4-16 Hydrice [] [] [X] [] Unit N Draina Remark | Depth | Matrix Color 2.5YR 4/3 2.5YR 4/3 Indicators sol Epipedon ic Odor olble Aquatic Moiscing Conditions d or Low-Chroma | Pit(in.): 3 Is(in.): 0 Mottle / 2nd Color 2.5YR 4/1 2.5YR 4/8 St Regime a Colors | Abundance Contrast common few [] Concretions [] High Organ [] Organic Str [] Listed on Lo [] Listed on N [] Other (explain | Structur Silt Silty Cla ic % in Surface eaking ocal Hydric Soil ational Hydric S ain in remarks) | e, etc. y Layer s List Soils List | | | |
| Remail Soils Depth (in.) 0-4 4-16 Hydrice [] [] [X] [] Unit N Draina Remark Wetlar [X] Hy | Depth | Matrix Color 2.5YR 4/3 2.5YR 4/3 Indicators sol Epipedon ic Odor ble Aquatic Moiscing Conditions d or Low-Chromass: | Pit(in.): 3 Is(in.): 0 Mottle / 2nd Color 2.5YR 4/1 2.5YR 4/8 St Regime a Colors | Abundance Contrast common few [] Concretions [] High Organ [] Organic Str [] Listed on Lot [] Listed on N [] Other (explain the component of the compon | Structur Silt Silty Cla ic % in Surface eaking ocal Hydric Soil ational Hydric S ain in remarks) | e, etc. y Layer s List Soils List | | | |
| Remail Soils Depth (in.) 0-4 4-16 Hydrice [] [] [X] [] Unit N Draina Remark Wetlar [X] Hy [X] Hy | Depth | Matrix Color 2.5YR 4/3 2.5YR 4/3 2.5YR 4/3 Indicators sol Epipedon ic Odor ble Aquatic Moiscing Conditions d or Low-Chromass: | Pit(in.): 3 Is(in.): 0 Mottle / 2nd Color 2.5YR 4/1 2.5YR 4/8 St Regime a Colors | Abundance Contrast common few [] Concretions [] High Organ [] Organic Str [] Listed on Lot [] Listed on N [] Other (explain the component of the compon | Structur Silt Silty Cla ic % in Surface eaking ocal Hydric Soil ational Hydric S ain in remarks) | e, etc. y Layer s List Soils List | | | |

| Applicant/Ow Investigator: [X] Do norma | Concord Resort, Treer: Concord Ass Ethan Stewart al circumstances exis | ociates, LP | | | Date: Octob County: Su State: New Community I | llivan York | |
|--|--|----------------------------------|---|--|--|---|--------------------------|
| | etation, soils, or hyd a a potential probler | rology been disturben area? | d? | | Station ID: T Plot ID: Upla | ransect 53.1 | |
| Vegetation | | | | | | | |
| • | Species | | Common Nar | ne | | % Cover | Indicator |
| <u>Herbaceous</u> | | :- | Fama Cibramil | - d | | | FAC |
| X _ | Athyrium thelyptero Carex novae-anglia Aster umbellatus Sphagnum sp. | | Fern,Silvery L Sedge,New E Aster,Flat-Top | ngľand | | | FAC FACU* FACW |
| Tree X | Fagus grandifolia Acer saccharum Pinus strobus | 540/ | Beech,Americ Maple,Sugar Pine,Eastern | White | 1: 01 : | | FACU FACU- FACU |
| % Species th Remarks | at are OBL, FACW, | or FAC (except FAC | -): 50 | Cow | vardin Classifi | cation: | |
| Hydrology | <u> </u> | Prii | mary Wetland Hyd | rology Indicators | s Seco | ndary Hydrology | / Indicators |
| [] Si [] Ai [] O Field Obser Depth Depth | ed Data (describe in tream, Lake, or Tide erial Photograph ther (describe in renvations: n of Surface Water(in to Free Water in Pinto Saturated Soils(| Gage narks) n.): 0 t(in.): >24 |] Inundated] Saturated in upace] Water marks] Drift lines] Sediment depoce] Drainage patte | osits |]] | Oxidized root of the control of the | leaves ey data est |
| Soils | | | | | | | |
| | r. Matrix Color | Mottle / 2nd Mottle | | | cture, ucture, etc. | | |
| 3-0 O | 5YR 3/1 | COIOI | Abundance Co | | composed lea | aves | |
| 0-6 A | 5YR 3/1 | | | Silt | • | | |
| 6-12 B | 5YR 4/1 | 7.5YR 5/6 7.5YR 4/1 | common few | Sar | ndy Loam | | |
| [] Sulfid [] Prob [] Redu | osol c Epipedon | | [] Orga [] Listed [] Listed | retions Organic % in Su nic Streaking d on Local Hydrid d on National Hy r (explain in rema | c Soils List dric Soils List | | |
| Unit Name: Drainage C | lass: | | Taxonomy: | servations matcl | h map | | |
| Remarks | | | | | | | |
| Wetland D | etermination | | | | | | |
| [] Hydric S | nytic Vegetation Pre Soils Present I Hydrology Present | sent | []This l | Oata Point is a W | Vetland | | |

Job Number: 100309 City: Thompson

Wetland Data Point: W53 (wetland)

| | | rt, Thompson, NY | | | Date: October 22, 2004 | | | |
|-------------------|------------------------------------|----------------------|-------------------------|---------------------|---------------------------|---------------|--|--|
| | wner: Concord | Associates, LP | | | County: Sullivan | | | |
| | : Ethan Stewart | | | | State: New York | | | |
| | nal circumstances | | | | Community ID: W53 | | | |
| | | hydrology been distu | irbed? | | Station ID: Transect 53.1 | | | |
| | rea a potential pro | blem area? | | | Plot ID: Wetland | | | |
| Vegetation | on | | | | | | | |
| Dominant | | | Common | Name | % Cover | Indicator | | |
| <u>Herbaceοι</u> | | • | A atar Flat | Tan Mhita | | EAC\\\ | | |
| Х | Aster umbellatus Phragmites aus | | Aster,Flat- Reed,Com | | | FACW FACW | | |
| | Carex granularis | | Sedge,Mea | | | FACW+ | | |
| | Lycopodium obs | | Clubmoss, | | | FACU | | |
| | Sphagnum sp. | | | | | | | |
| Church | Thelypteris nove | eboracensis | Fern,New | York | | FAC | | |
| <u>Shrub</u> | Vaccinium coryr | mhosum | Blueberry,l | Highbush | | FACW- | | |
| <u>Tree</u> | vaccinium coryi | nbosum | Dideberry, | iigiibusii | | TAOW | | |
| X | Acer rubrum | | Maple,Red | | | FAC | | |
| Χ | Pinus strobus | | Pine,Easte | | | FACU | | |
| 0/ 0 | Betula alba | NA 0 5 5 0 / 5 5 | Birch,White | | Courandia Classification | FAC+ | | |
| % Species Remarks | tnat are OBL, FAC | W, or FAC (except F | AU-): bb | C | Cowardin Classification: | | | |
| Nemarks | | | | | | | | |
| Lydrala | 11.7 | | | | | | | |
| Hydrolog | • • | | Primary Wetland I | Hydrology Indica | | • | | |
| [X] Recor | ded Data (describe | e in remarks) | [] Inundated | | [] Oxidized root | channels | | |
| [X] | Stream, Lake, or T | ide Gage | [] Saturated in | n upper 12 inche | s [X] Water-stained | leaves | | |
| [] | Aerial Photograph | | [X] Water mark | (S | [] Local soil sur | vey data | | |
| [] | Other (describe in | remarks) | [] Drift lines | | [] FAC-Neutral t | test | | |
| Field Ohe | am ration ar | | [X] Sediment d | eposits | [] Other (explain | n in remarks) | | |
| Field Obs | | (' \ 0 | | atterns in wetland | ds | | | |
| | oth of Surface Water | ` ' | | | | | | |
| | oth to Free Water in | ` ' | | | | | | |
| Dep | oth to Saturated Sc | oils(in.): >16 | | | | | | |
| Remarks | | | | | | | | |
| | | | | | | | | |
| Soils | | | | | | | | |
| | or. Matrix | Mottle / 2nd Mo | ottle | - | Texture, | | | |
| (in.) | Color | Color | | | Structure, etc. | | | |
| 2-0 C | | | | | decomposed leaves | | | |
| 0-12 A | | 5YR 4/1 | common | | Sandy Loam | | | |
| 12-16 B | | 10YR 6/4 | common | | Sandy Loam | | | |
| | | 10YR 5/2 | few | | - | | | |
| Hydric So | ils Indicators | | | | | | | |
| Trydric Go | | | [10 | oncretions | | | | |
| | tic Epipedon | | | gh Organic % in | Surface Laver | | | |
| | | | | gn Organic % in | Ouriace Layer | | | |
| | fidic Odor | ist Bogims | | | dria Saila Liat | | | |
| | bable Aquatic Moi | si Kegiine | | sted on Local Hy | | | | |
| | ducing Conditions | | | | Hydric Soils List | | | |
| [] Gle | eyed or Low-Chron | na Colors | [] O | ther (explain in re | emarks) | | | |
| Unit Name | e: | | Taxonom | ıy: | | | | |
| Drainage | Class: | | | Observations ma | atch map | | | |
| Remarks | | | | | | | | |
| Wetland | Determination | on | | | | | | |
| | phytic Vegetation I | | [X] T | nis Data Point is | a Wetland | | | |
| | Soils Present | 1000111 | [7] 11 | וווו וא ביים ביים | a vvotana | | | |
| | | ent | | | | | | |
| | nd Hydrology Pres | CIII | | | | | | |
| Remarks | | | | | | | | |

| Applicant/Ov Investigator: [X] Do norm [] Have ve | Concord Resort, oner: Concord Assethan Stewart al circumstances exigetation, soils, or hydea a potential problem n | ociates, LP st on the site? rology been disturb | ed? Common Nam | (5 5 F | Date: October 21, 2004 County: Sullivan State: New York Community ID: W44 Station ID: Transect 44.1 Plot ID: Upland % Cover | Indicator |
|---|--|---|--|------------------------------|---|---|
| <u>Herbaceous</u> X | | 3 | | | 7, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20 | |
| <u>Tree</u> X | Acer rubrum Betula alba Tsuga canadensis nat are OBL, FACW, | | Maple,Red Birch,White Hemlock,Easte | | rdin Classification: | FAC FAC+ FACU |
| [] S [] A [] C Field Obse Dept Dept | led Data (describe in Stream, Lake, or Tide Aerial Photograph Other (describe in ren | remarks) Gage narks) 1.): 0 t(in.): >24 | mary Wetland Hydro [] Inundated [] Saturated in upp [] Water marks [] Drift lines [] Sediment depos [] Drainage patter | per 12 inches | Secondary Hydrolog [] Oxidized root [] Water-stained [] Local soil surv [] FAC-Neutral t [] Other (explain | channels l leaves vey data est |
| Soils | | | | | | |
| Depth Ho (in.) 0-4 A | or. Matrix Color 5YR 3/2 | Mottle / 2nd Mottl Color 5YR 3/1 | | Textu trast Struc Silt | ure, cture, etc. | |
| 4-14 B | 5YR 4/3 | 7.5YR 4/2 | common | Silt | | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: | | | [] Concretions [] High Organic % in Surface Layer [] Organic Streaking [] Listed on Local Hydric Soils List [] Listed on National Hydric Soils List [] Other (explain in remarks) Taxonomy: | | | |
| Drainage C | Jass: | | [] Field Obs | ervations match | map | |
| Remarks Filled Area | | | | | | |
| Wetland I | Determination | | | | | |
| [] Hydric | hytic Vegetation Pre Soils Present d Hydrology Present | sent | [] This D | ata Point is a We | etland | |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W44 (wetland)

| Project/Site: C | Concord Resort, T | nompson, NY | | Date: October 21, 2004 | |
|--|--|--|---|--|------------------------------|
| Applicant/Owne | er: Concord Asso | ciates, LP | County: Sullivan | | |
| Investigator: E | than Stewart | | State: New York | | |
| [X] Do normal of | circumstances exis | on the site? | | Community ID: W44 | |
| [] Have vegeta | ation, soils, or hydr | ology been disturbed | ? | Station ID: Transect 44.1 | |
| [] Is the area | a potential problem | area? | | Plot ID: Wetland | |
| Vegetation | | | | | |
| _ | pecies | | Common Name | % Cover | Indicator |
| Herbaceous | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | ragaria virginiana | | Strawberry, Virginia | | FACU |
| | arex laxiflora | | Sedge,Loose-Flowered | | FACU* |
| | ster umbellatus | | Aster,Flat-Top White | | FACW |
| | helypteris novebora | | Fern, New York | | FAC FAC |
| | thyrium pycnocarpo phagnum sp. |)TI | Fern,Narrow-Leaf Lady | | FAC |
| <u>Shrub</u> | рпаунитт эр. | | | | |
| | ex verticillata | | Winterberry, Common | | FACW+ |
| | Phododendron maxi | mum | Rhododendron,Roseba | у | FAC |
| Tree X Ts | | | | | |
| | suga canadensis | | Hemlock,Eastern | | FACU |
| | etula alleghaniensi | S | Birch, Yellow | | FAC |
| | cer rubrum | | Maple,Red Birch,White | | FAC FAC+ |
| | etula alba agus grandifolia | | Beech | | FAC+ |
| | | r FAC (except FAC-) | | Cowardin Classification: | IAUI |
| Remarks | , | , | | | |
| | | | | | |
| [] Stre [] Aeri [] Othe Field Observa Depth o | Data (describe in ream, Lake, or Tide of all Photograph er (describe in remations: of Surface Water (in. o Free Water Soils(in.) | Gage [X] | () Inundated () Saturated in upper 12 in () Water marks) Drift lines) Sediment deposits] Drainage patterns in we | [] Local soil sur [] FAC-Neutral [] Other (explai | d leaves vey data test |
| Soils | | | | | |
| | Matrix | Mottle / 2nd Mottle | | Texture, | |
| (in.) | CLEVAAF/EDB | Color A | bundance Contrast | Structure, etc. | |
| 12-0 O | GLEY2 2.5/5PB | 7 EVD 0 E/4 | | decomposed leaves | |
| 0-3 A | 7.5YR 3/1 | | common | Silty Clay Loam | |
| 3-9 B | GLEY1 5/N | 7.5YR 6/6 n | nany | Sandy Loam | |
| Hydric Soils Ir | ndicators | | | | |
| [] Histoso | ol | | [] Concretions | | |
| [] Histic E | Epipedon | | [X] High Organic % | % in Surface Layer | |
| [X] Sulfidio | | | [] Organic Streak | - | |
| [X] Probab | ole Aquatic Moist R | eaime | [] Listed on Loca | _ | |
| | ing Conditions | 5 | | onal Hydric Soils List | |
| | l or Low-Chroma C | olors | [] Other (explain | - | |
| [A] Olcyeu | . S. LOW Sillonia C | 0.0.0 | [] Culci (explain | romanoj | |
| Unit Name: | | | Taxonomy: | | |
| Drainage Clas | SS: | | [] Field Observation | s match map | |
| | | | | | |

Data Form

Job Number: 100309
City: Thompson

Routine Wetland Determination Wetland Data Point: W44 (wetland)

Wetland Determination

[X] Hydrophytic Vegetation Present

[X] Hydric Soils Present

[X] Wetland Hydrology Present

Remarks

[X] This Data Point is a Wetland

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been dist [X] Is the area a potential problem area? | urbed? | Date: October 22, 2004 County: Sullivan State: New York Community ID: W11 Station ID: Transect 11.1 Plot ID: Upland (north) |
|--|---|---|
| Vegetation Dominant Species | Common Name | % Cover Indicator |
| Herbaceous Sphagnum sp. Tree X Acer rubrum Fagus grandifolia Pinus strobus % Species that are OBL, FACW, or FAC (except Remarks | Maple,Red Beech,American Pine,Eastern White | FAC FACU FACU Cowardin Classification: |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicate [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetland | [] Oxidized root channels es [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils Depth Hor. Matrix Mottle / 2nd M Color | lottle Abundance Contrast | Texture, Structure, etc. |
| 1-0 O 5YR 3/1 0-12 A 5YR 5/4 5YR 3/1 | few | decomposed leaves Silt |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors | [] Concretions [] High Organic % ir [] Organic Streaking [] Listed on Local Hy [] Listed on Nationa [] Other (explain in r | g ydric Soils List I Hydric Soils List |
| Unit Name: Drainage Class: | Taxonomy: [] Field Observations m | natch map |
| Remarks | ,, | |
| Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is | a Wetland |

Job Number: 100309 City: Thompson

Wetland Data Point: W11 (wetland)

| Project/ | /Site: | Concord Resort, | Thompson, NY | | Date: October 22, 2004 | | | |
|---|----------|----------------------|-------------------|-------------------------------|------------------------|---------------------|--------------|--|
| Applicant/Owner: Concord Associates, LP | | | | County: Sullivan | | | | |
| Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? | | | | | State: New York | | | |
| | | | | | Community ID: W11 | | | |
| [] Have vegetation, soils, or hydrology been disturbed? | | | urbed? | | on ID: Transect 11.1 | | | |
| | _ | a potential proble | | | | D: Wetland (north) | | |
| Vegeta | ation | \ | | | | · , , | | |
| Domina | | Species | | Common Name | | % Cover | Indicator | |
| Herbad | | opeoies | | Common Name | | 70 00101 | maioatoi | |
| X | | Athyrium thelyptero | oides | Fern, Silvery Lady | | | FAC | |
| | , | Sphagnum sp. | | | | | | |
| <u>Shrub</u> | | Dhadadandran ma | | Dhadadandran Dasaba | | | FAC | |
| Tree | , | Rhododendron ma | xirriurri | Rhododendron,Roseba | у | | FAC | |
| X | | Pinus strobus | | Pine, Eastern White | | | FACU | |
| X | | Acer rubrum | | Maple,Red | | | FAC | |
| | | Fraxinus americana | э | Ash,White | | | FACU | |
| | | Fagus grandifolia | | Beech | | | FAC+ | |
| | | at are OBL, FACW, | or FAC (except | FAC-): 66 | Cowardin | Classification: | | |
| Remark | (S | | | | | | | |
| | | | | | | | | |
| Hydro | logy | | | Primary Wetland Hydrology Inc | dicators | Secondary Hydrolog | y Indicators | |
| [] Re | ecorde | d Data (describe in | remarks) | [X] Inundated | | [] Oxidized root | channels | |
| | [] Str | ream, Lake, or Tide | Gage | [X] Saturated in upper 12 in | ches | [X] Water-stained | leaves | |
| | [] Ae | rial Photograph | • | [X] Water marks | | [] Local soil surv | rev data | |
| | | her (describe in rer | narks) | Drift lines | | [] FAC-Neutral t | • | |
| | [] 0 | (466626 16. | | [] Sediment deposits | | Other (explain | | |
| Field (| Observ | ations: | | [X] Drainage patterns in we | tlande | [] Other (explain | in remains) | |
| | Depth | of Surface Water(i | n.): 1 | [X] Diamage patterns in we | liarius | | | |
| | Depth | to Free Water in P | it(in.): 0 | | | | | |
| | Depth | to Saturated Soils(| in.): 0 | | | | | |
| _ | | | , | | | | | |
| Rema | ırks | | | | | | | |
| Calla | | | | | | | | |
| Soils | | | | | _ | | | |
| Depth | Hor. | . Matrix | Mottle / 2nd M | | Texture, | | | |
| (in.) | | Color | Color | Abundance Contrast | Structure | | | |
| 4-0 | 0 | GLEY2 2.5/5PB | E)/D 0/0 | | • | osed leaves | | |
| 0-8 | Α | 2.5YR 5/4 | 5YR 6/8 | many | Loamy Fi | ne Sand | | |
| | | | 2.5YR 4/4 | common | | | | |
| Hydrid | c Soils | Indicators | | | | | | |
| [] |] Histos | sol | | [] Concretions | | | | |
| 1 |] Histic | Epipedon | | [] High Organic % | 6 in Surface I | Layer | | |
| [X | Sulfid | ic Odor | | [] Organic Streak | ing | • | | |
| | | able Aquatic Moist I | Regime | [] Listed on Local | | List | | |
| | | cing Conditions | 9 | [] Listed on Natio | - | | | |
| | | ed or Low-Chroma | Colors | [] Other (explain | - | ono Liot | | |
| [/. | Cicyc | d of Low-Officina | 001013 | [] Other (explain | iii iciiaiks) | | | |
| Unit N | lame: | | | Taxonomy: | | | | |
| Draina | age Cla | ass: | | [] Field Observation: | s match map | | | |
| Remark | (S | | | | | | | |
| rteman | 13 | | | | | | | |
| Wetla | nd D | etermination | | | | | | |
| | | | sent | [¥] This Data Pain | t is a Motlon | 4 | | |
| | | ytic Vegetation Pre | SCIIL | [X] This Data Poin | ı ıs a vveliano | u | | |
| | | oils Present | | | | | | |
| | etland | Hydrology Present | | | | | | |
| Remark | | | | | | | | |

| Project/Site | : Concord Resort, T | hompson, NY | | Da | ite: Octol | per 22, 2004 | |
|---|--|-----------------------|--|------------------|-------------|-------------------|-------------|
| Applicant/Owner: Concord Associates, LP | | | | County: Sullivan | | | |
| Investigato | r: Ethan Stewart | | | State: New York | | | |
| | [X] Do normal circumstances exist on the site? | | | | | ID: W11 | |
| | egetation, soils, or hydr | | | | | Transect 11.2 | |
| | rea a potential problem | n area? | | Plo | ot ID: Upl | and (south) | |
| Vegetation | | | | | | | |
| Dominant | Species | | Common Name | | | % Cover | Indicator |
| <u>Herbaceou</u> | <u>is</u> Sphagnum sp. | | | | | | |
| Shrub | орпадпат ор. | | | | | | |
| _ | Vaccinium angustifo | lium | Blueberry,Lowbush | | | | FACU- |
| <u>Tree</u> X | Acer rubrum | | Maple,Red | | | | FAC |
| ^ | Acer rubrum Acer saccharum | | Maple, Sugar | | | | FACU- |
| | Fagus grandifolia | | Beech, American | | | | FACU |
| | Fraxinus americana | | Ash,White | | | | FACU |
| 0/ Ci | Pinus strobus | FAC (+ FAC)- | Pine,Eastern White | Coword | lin Classif | ination | FACU |
| | that are OBL, FACW, o | or FAC (except FAC-): | 100 | Coward | din Classif | ication: | |
| Remarks | | | | | | | |
| Hydrolog | 1V | | | | | | |
| • | | | ry Wetland Hydrology Indi | icators | | ondary Hydrology | |
| | ded Data (describe in r | , | Inundated | | L |] Oxidized root | |
| | Stream, Lake, or Tide | • | Saturated in upper 12 inc | cnes | L |] Water-stained | |
| | Aerial Photograph | | Water marks | | • |] Local soil surv | • |
| l J | Other (describe in rem | , | Drift lines | | - |] FAC-Neutral to | |
| Field Obs | ervations: | | Sediment deposits | | L |] Other (explain | in remarks) |
| Der | oth of Surface Water(in | .): 0 | Drainage patterns in wetl | lands | | | |
| | oth to Free Water in Pit | | | | | | |
| | oth to Saturated Soils(in | | | | | | |
| • | | , | | | | | |
| Remarks | | | | | | | |
| Soils | | | | | | | |
| | lor. Matrix | Mottle / 2nd Mottle | | Texture | 0 | | |
| (in.) | Color | | undance Contrast | | ure, etc. | | |
| 1-0 C | | | | | nposed le | aves | |
| 0-10 A | 2.5YR 4/6 | | | Silt pet | bbles | | |
| Lludria Ca | ila Indiaatora | | | | | | |
| - | oils Indicators | | [] Congretions | | | | |
| [] His | | | [] Concretions | in Curfoo | | | |
| | stic Epipedon Ifidic Odor | | [] High Organic % [] Organic Streakir | | e Layer | | |
| | | ogimo | | J | oile Liet | | |
| | bable Aquatic Moist R | egime | [] Listed on Local | • | | | |
| | ducing Conditions | oloro | [] Listed on Nation | - | | <u></u> | |
| [] Git | eyed or Low-Chroma C | 01015 | [] Other (explain ir | ii ieiliaiks | >) | | |
| Unit Nam | e: | | Taxonomy: | | | | |
| Drainage | Class: | | [] Field Observations | match m | ар | | |
| Remarks | | | | | | | |
| Rock at 1 | 0" | | | | | | |
| Wetland | Determination | | | | | | |
| [] Hydro | phytic Vegetation Pres | ent | [] This Data Point | is a Wetla | and | | |
| | Soils Present | | | | - | | |
| | nd Hydrology Present | | | | | | |
| Remarks | , | | | | | | |
| Upland | | | | | | | |
| - 1 | | | | | | | |

Job Number: 100309 **Data Form Routine Wetland Determination**

City: Thompson Wetland Data Point: W11 (wetland)

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been disturb [X] Is the area a potential problem area? | ed? | Date: October 22, 2004 County: Sullivan State: New York Community ID: W11 Station ID: Transect 11.2 Plot ID: Wetland (south) | |
|---|--|--|--|
| Vegetation | | | |
| Dominant Species | Common Name | % Cover Indicator | |
| Herbaceous X Aster umbellatus Athyrium thelypteroides Sphagnum sp. | Aster,Flat-Top White Fern,Silvery Lady | FACW FAC | |
| Shrub | Plugherry Highbugh | FACW- | |
| X Vaccinium corymbosum Prunus virginiana | Blueberry,Highbush Cherry,Choke | FACV- FACU | |
| Tree | Cherry, Cherce | TAGG | |
| X Acer rubrum | Maple,Red | FAC | |
| X Fagus grandifolia | Beech | FAC+ | |
| % Species that are OBL, FACW, or FAC (except FAC | C-): 100 Cov | vardin Classification: | |
| Remarks | | | |
| I hadroloma | | | |
| [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 1 Depth to Free Water in Pit(in.): 0 Depth to Saturated Soils(in.): 0 | imary Wetland Hydrology Indicator. [X] Inundated [X] Saturated in upper 12 inches [X] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | Secondary Hydrology Indicators [] Oxidized root channels [X] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) | |
| Remarks Soils Poeth Her Metrix Metric (2nd Metric | lo To | | |
| Depth Hor. Matrix Mottle / 2nd Mottle (in.) Color Color | | xture, ucture, etc. | |
| 3-0 O GLEY2 2.5/5PB | | composed leaves | |
| 0-2 A 2.5YR 4/1 | | ty Clay | |
| 2-6 B 2.5YR 5/4 5YR 6/8 | | ndy Loam | |
| GLEY2 6/10BG | few | , | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [X] Probable Aquatic Moist Regime [X] Reducing Conditions [X] Gleyed or Low-Chroma Colors | [] Concretions [] High Organic % in Su [] Organic Streaking [] Listed on Local Hydri [] Listed on National Hy [] Other (explain in rem | c Soils List rdric Soils List | |
| Unit Name: | Taxonomy: | h man | |
| Drainage Class: Remarks | [] Field Observations mate | п шар | |
| | | | |
| Wetland Determination | | | |
| [X] Hydrophytic Vegetation Present[X] Hydric Soils Present[X] Wetland Hydrology PresentRemarks | [X] This Data Point is a V | Vetland | |

| Project/Site: Concord Resort, Thompson, Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site [] Have vegetation, soils, or hydrology been [X] Is the area a potential problem area? | Council State ? Condisturbed? State ? | te: October 20, 2004 unty: Sullivan te: New York mmunity ID: W43 tion ID: Transect 43.1 t ID: Upland |
|--|--|--|
| Vegetation Dominant Species | Common Name | % Cover Indicator |
| Herbaceous X Golf Coarse Tree | | |
| X Acer rubrum Pinus strobus | Maple,Red Pine,Eastern White | FAC FACU |
| % Species that are OBL, FACW, or FAC (exc Remarks | | in Classification: |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicators [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | Secondary Hydrology Indicators [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| Depth Hor. Matrix Mottle / 2r | | |
| 0-4 A 5YR 5/1 5YR 4/1 | Abundance Contrast Structur few Silt | · |
| 4-6 B 2.5YR 4/3 2.5YR 4/2 | few Silt Loa | ım |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors | [] Concretions [] High Organic % in Surface [] Organic Streaking [] Listed on Local Hydric Soi [] Listed on National Hydric [] Other (explain in remarks) | ils List Soils List |
| Unit Name: Drainage Class: | Taxonomy: [] Field Observations match mat | ар |
| Remarks Rock 6" | | |
| Wetland Determination | | |
| [] Hydrophytic Vegetation Present | | |

Job Number: 100309 City: Thompson

Wetland Data Point: W43 (wetland)

| Project | t/Site: | Conco | d Resort, T | hompson, NY | | | | | Date: Oc | tober 20, 200 | 04 | | |
|----------------|------------------|------------|----------------|------------------|--------|-----------------|-------------------|--------|-----------------|-------------------|---------|--------------|---|
| | | | ncord Asso | | | | | (| County: | Sullivan | | | |
| Investi | gator: | Ethan \$ | Stewart | | | | | 9 | State: N | ew York | | | |
| | | | | t on the site? | | | | (| Communi | ty ID: W43 | | | |
| []Ha | ve veg | etation, | soils, or hydr | ology been dist | urbed? | | | | | Transect 4 | 13.1 | | |
| | _ | | ntial problem | | | | | F | Plot ID: V | Vetland | | | |
| Veget | ation | n | • | | | | | | | | | | |
| Domin | | Species | • | | | Common | Namo | | | % C | over | Indicator | |
| Herba | | _ | 2 | | | Common | Tarric | | | 70 🔾 | OVCI | maicator | |
| X | 00040 | | eris novebora | acensis | | Fern,New | ⁄ork | | | | | FAC | |
| | | Sphagn | | | | | | | | | | | |
| T | | Athyriun | n thelypteroid | des | | Fern,Silver | y Lady | | | | | FAC | |
| <u>Tree</u> | | Acer rut | arum. | | | Maple,Red | | | | | | FAC | |
| ^ | | | anadensis | | | Hemlock,E | | | | | | FACU | |
| | | | ırandifolia | | | Beech | actorri | | | | | FAC+ | |
| <u>Vine</u> | | | | | | | | | | | | | |
| X | | Rubus v | | | | Dewberry | | | l: 01 | | | FACW | _ |
| | | at are O | BL, FACW, c | or FAC (except I | -AC-): | 100 | | Cowa | ardin Clas | ssification: | | | |
| Remar | 'ks | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Hydro | ology | / | | | Primai | rv Wetland I | Hydrology Indica | ators | S | econdary Hyd | droloav | / Indicators | |
| I 1R | ecorde | ed Data (| describe in r | emarks) | | Inundated | , | | | [] Oxidized | | | |
| | | | ake, or Tide | , | | | n upper 12 inch | nes | | [X] Water-st | | | |
| | | erial Pho | | | | Water mark | | | | [] Local so | | | |
| | | | scribe in rem | arks) | | Drift lines | | | | [] FAC-Ne | | • | |
| | | , | | ao, | | Sediment d | enosits | | | Other (e | | | |
| Field | Obser | vations: | | | | | atterns in wetla | inds | | [] 0 (0 | хріант | iii romano, | |
| | | | ace Water(in. | | [24] | Dramago p | attorno in wotiai | iiiuo | | | | | |
| | Depth | n to Free | Water in Pit | (in.): 14 | | | | | | | | | |
| | Depth | n to Satu | rated Soils(ir | n.): 14 | | | | | | | | | |
| Rema | orke | | | | | | | | | | | | |
| | | udrologu. | is probable. | | | | | | | | | | |
| | ereu ny | yurology | is probable. | | | | | | | | | | |
| Soils | | | | | | | | | | | | | |
| Deptl | h Hor | r. Matrix | | Mottle / 2nd M | | | | Text | | | | | |
| (in.) | | Color | | Color | Abı | ındance | Contrast | | cture, etc | | | | |
| 16-0 | 0 | | R 2.5/1 | 01 57/4 0/1 | | | | | | sed leaves | | | |
| 0-6 | Ag | 10YR | 6/1 | GLEY1 6/N | CO | mmon | | Sand | 2 | | | | |
| Hydr | ic Soils | s Indicato | ors | | | | | | | | | | |
| - |] Histo | | | | | []Co | oncretions | | | | | | |
| • | • | c Epiped | on | | | | gh Organic % ir | n Surf | ace Lave | er | | | |
| _ | - | dic Odor | | | | | ganic Streaking | | | | | | |
| - | - | | atic Moist R | eaime | | | sted on Local H | - | Soils List | | | | |
| - | - | ucing Co | | ogimo | | | sted on Nationa | • | | | | | |
| _ | - | - | w-Chroma C | olors | | | her (explain in | - | | _101 | | | |
| [A | i Cicy | cu oi Lo | w Omoma O | 01013 | | []0 | nor (explain in | Tomai | Ko) | | | | |
| Unit I | Name: | | | | | Taxonom | y: | | | | | | |
| Drain | age Cl | lass: | | | | [] Field | Observations n | match | map | | | | |
| Domos | ·ko | | | | | | | | | | | | |
| Remar | ĸS | | | | | | | | | | | | |
| \A/c+1- | | \ | .l.a.t! | | | | | | | | | | |
| vvetia | na D | eterm | ination | | | | | | | | | | |
| [X] H | lydroph | nytic Veg | etation Pres | ent | | [X] Th | is Data Point is | s a We | etland | | | | |
| [X] H | lydric S | Soils Pre | sent | | | | | | | | | | |
| | - | | gy Present | | | | | | | | | | |
| Remar | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| Project/Site: | Concord Resort, Thompson, NY | | Date: October 20, 2004 | |
|-------------------------|---|------------------------------------|---------------------------|--------------|
| | vner: Concord Associates, LP | | County: Sullivan | |
| | Ethan Stewart | | State: New York | |
| | al circumstances exist on the site? | | Community ID: W42 | |
| [] Have veg | getation, soils, or hydrology been dis | turbed? | Station ID: Transect 42.1 | |
| | ea a potential problem area? | | Plot ID: Upland | |
| Vegetatio | n Species | Common Name | % Cover | Indicator |
| Herbaceous | • | Common Name | /6 COVE | Indicator |
| X | Thelypteris noveboracensis Sphagnum sp. | Fern,New York | | FAC |
| <u>Tree</u> | Tsuga canadensis | Hemlock, Eastern | | FACU |
| ^ | Acer rubrum | Maple,Red | | FAC |
| | Fagus grandifolia | Beech, American | | FACU |
| % Species th Remarks | nat are OBL, FACW, or FAC (except | FAC-): 50 Co | wardin Classification: | |
| | | | | |
| Hydrology | у | Primary Wetland Hydrology Indicato | rs Secondary Hydrology | y Indicators |
| [] Record | ed Data (describe in remarks) | [] Inundated | [] Oxidized root | channels |
| []S | Stream, Lake, or Tide Gage | [] Saturated in upper 12 inches | [] Water-stained | leaves |
| []A | erial Photograph | [] Water marks | [] Local soil surv | ey data |
| []C | Other (describe in remarks) | [] Drift lines | [] FAC-Neutral to | est |
| Field Obse | ryations: | [] Sediment deposits | [] Other (explain | in remarks) |
| | | [] Drainage patterns in wetlands | S | |
| | h of Surface Water(in.): 0 | | | |
| | h to Free Water in Pit(in.): >24 | | | |
| Бери | h to Saturated Soils(in.): >24 | | | |
| Remarks | | | | |
| Soils | | | | |
| | or. Matrix Mottle / 2nd N | Mottle Te | exture, | |
| (in.) | Color Color | | ructure, etc. | |
| 3-0 O | 5YR 5/1 | | ecomposed leaves | |
| 0-6 A | 7.5YR 4/2 | Si | lt | |
| 6-12 B | 7.5YR 3/2 | Si | lt | |
| Hydric Soil | s Indicators | | | |
| Histo | | [] Concretions | | |
| | ic Epipedon | [] High Organic % in S | urface Laver | |
| | idic Odor | [] Organic Streaking | unace Layer | |
| | pable Aquatic Moist Regime | [] Listed on Local Hydi | io Soile Liet | |
| | ucing Conditions | | | |
| | ed or Low-Chroma Colors | [] Listed on National H | | |
| [] Gley | red of Low-Chiloffia Colors | [] Other (explain in ren | laiks) | |
| Unit Name: | : | Taxonomy: | | |
| Drainage C | Class: | [] Field Observations mat | ch map | |
| Remarks | | | | |
| Rock 6" | | | | |
| Wetland D | Determination | | | |
| [] Hydrop | hytic Vegetation Present | [] This Data Point is a | Wetland | |
| | Soils Present | | | |
| | d Hydrology Present | | | |
| Remarks | | | | |
| Upland | | | | |

Job Number: **100309** City: **Thompson**

Wetland Data Point: W42(wetland)

| Applicant/O Investigator [X] Do norm [] Have ve | : Concord Resort, wner: Concord Ass : Ethan Stewart nal circumstances ex egetation, soils, or hydea a potential proble | sociates, LP ist on the site? drology been dis | | Cour State Com Stati | e: October 20, 2004 nty: Sullivan e: New York nmunity ID: W42 ion ID: Transect 42.1 ID: Wetland |
|---|--|--|--|---|--|
| Dominant Herbaceou | Species <u>s</u> | | Common Nam | e | % Cover Indicator |
| <u>Tree</u> | Sphagnum sp. | | | | |
| X | Tsuga canadensis | | Hemlock,Easte | rn | FACU |
| % Species t Remarks | Fagus grandifolia hat are OBL, FACW, | or FAC (except | FAC-): 0 | Cowardir | FAC+ n Classification: |
| Hydrolog | ıy | | Primary Wetland Hydr | ology Indicators | Secondary Hydrology Indicators |
| [] { [] / [] (Field Obse Dep Dep | ded Data (describe in Stream, Lake, or Tide Aerial Photograph Other (describe in reservations: th of Surface Water (in the to Free Water in Path to Saturated Soils) | e Gage marks) n.): 0 it(in.): 0 | [] Inundated [X] Saturated in up [X] Water marks [X] Drift lines [] Sediment depoi | sits | [] Oxidized root channels [X] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Remarks Slope | | | | | |
| Soils | | | | | |
| (in.) 2-0 O 0-10 A | 7.5YR 4/2 | Mottle / 2nd I Color 7.5YR 5/3 | Abundance Con | Silt | e, etc. posed leaves |
| 10-18 B | 7.5YR 5/3 | 7.5YR 5/6 7.5YR 6/1 | common few | Fine Sar | ndy Loam |
| [] His [] His [] Sul [X] Pro [X] Red | tic Epipedon fidic Odor bable Aquatic Moist ducing Conditions yed or Low-Chroma | | [] Organ [] Listed [] Listed | etions Drganic % in Surface ic Streaking on Local Hydric Soil on National Hydric S (explain in remarks) | s List |
| Drainage (| | | | ervations match map | р |
| Remarks | | | | | |
| [X] Hydror [X] Hydric | Determination Ohytic Vegetation Pre Soils Present and Hydrology Present | | [X] This D | ata Point is a Wetlar | nd |

| Applicant/Owr Investigator: [X] Do norma [] Have vege | Concord Resort, Toner: Concord Assethan Stewart I circumstances existetation, soils, or hydea a potential problem | ociates, LP st on the site? rology been distr | urbed? | | County State: Commu Station | October 20, 2004 : Sullivan New York unity ID: W41 ID: Transect 41.1 : Upland | |
|---|---|---|---|---|---|--|--------------------------------------|
| Dominant | Species | | Commoi | Name | | % Cover | Indicator |
| <u>Herbaceous</u> <u>Tree</u> | Athyrium thelyptero | ides | Fern,Silv | ery Lady | | | FAC |
| X . | Pinus strobus Acer saccharum Fagus grandifolia | | Pine,Eas Maple,Su Beech,Ai | | | | FACU FACU- FACU |
| % Species that Remarks | at are OBL, FACW, | or FAC (except I | FAC-): 0 | | Cowardin C | lassification: | |
| [] Str [] Ae [] Ot Field Observ Depth Depth | d Data (describe in ream, Lake, or Tide erial Photograph ther (describe in rem | Gage arks) a.): 0 t(in.): >24 | [] Water ma [] Drift lines [] Sediment | I in upper 12 ind rks | ches | Secondary Hydrology [] Oxidized root of a secondary Hydrology [] Water-stained [] Local soil surv [] FAC-Neutral to a secondary Hydrology [] Other (explain) | channels leaves ey data est |
| Soils | | | | | | | |
| | . Matrix Color 5YR 3/1 5YR 4/3 7.5YR 5/6 | Mottle / 2nd M Color 5YR 5/3 7.5YR 5/4 | Abundance few few | Contrast | Texture, Structure, edecompos Loam Sandy Loa | ed leaves | |
| Hydric Soils [] Histo: [] Histic [] Sulfid [] Proba | Indicators sol Epipedon lic Odor able Aquatic Moist R cing Conditions ed or Low-Chroma C | legime | [] ([] ([] ([] ([] (| Concretions High Organic % Organic Streak Listed on Local Listed on Natio Other (explain i my: d Observations | o in Surface La ing Hydric Soils L nal Hydric Soil n remarks) | ayer | |
| Remarks | | | (1 | | | | |
| [] Hydroph [] Hydric S | etermination ytic Vegetation Presoils Present Hydrology Present | sent | [] | This Data Point | is a Wetland | | |

Job Number: **100309** City: **Thompson**

Wetland Data Point: W41(wetland)

| Applicant/Owner: C Investigator: Ethan [X] Do normal circur | nstances exist on the site? soils, or hydrology been dis | turbed? | Count State: Comn Statio | October 26, 2004 ty: Sullivan New York nunity ID: W41 n ID: Transect 41.1 D: Wetland | |
|--|---|---|-----------------------------------|--|---------------------------|
| Vegetation | | | | | |
| Dominant Specie | s | Common Name | | % Cover | Indicator |
| <u>Herbaceous</u> | | | | | |
| Sphag | teris noveboracensis num sp. | Fern,New York | | | FAC |
| <u>Shrub</u> | m thelypteroides dendron maximum | Fern,Silvery Lady | aabay | | FAC FAC |
| | dendron maximum | Rhododendron,Ro | Sebay | | FAC |
| Fagus % Species that are 0 | ibrum canadensis grandifolia DBL, FACW, or FAC (except | Maple,Red Hemlock,Eastern Beech FAC-): 100 | Cowardin | Classification: | FAC FACU FAC+ |
| Remarks | | | | | |
| Hydrology | (describe in asserts) | Primary Wetland Hydrolog | gy Indicators | Secondary Hydrolog | • |
| [] Stream, I [] Aerial Ph [] Other (de Field Observations Depth of Sur Depth to Fre- Depth to Sat | escribe in remarks) | [X] Inundated [X] Saturated in upper [X] Water marks [] Drift lines [X] Sediment deposits [X] Drainage patterns | | [] Oxidized root [X] Water-stained [] Local soil surv [] FAC-Neutral t [] Other (explain | leaves vey data est |
| Remarks Soils | | | | | |
| Depth Hor. Matr | ix Mottle / 2nd N | | Texture, | | |
| (in.) Colo | r Color | Abundance Contras | Structure, | etc. | |
| 2-0 O 5YR | | | | sed leaves | |
| 0-3 A 5YR | | few | Sandy Lo | | |
| 3-12 B 2.5Y | R 4/3 5YR 5/6 2.5YR 5/4 | common common | Sandy Lo | am | |
| [] Reducing Co | tors don r uatic Moist Regime | [] Concretio [] High Orga [] Organic S [] Listed on [] Listed on | anic % in Surface L | List | |
| Unit Name: | | Taxonomy: | -tit-b | | |
| Drainage Class: Remarks | | [] Field Observ | ations match map | | |
| Wetland Deterr | mination | | | | |
| [X] Hydrophytic Ve [X] Hydric Soils Pro [X] Wetland Hydro Remarks | getation Present esent | [X] This Data | Point is a Wetland | 1 | |

| • | Concord Resort | • | | | Date: October 20, 2004 | |
|-------------------|--|----------------------|-----------------------|------------------|---------------------------|-------------|
| | wner: Concord As | ssociates, LP | | | County: Sullivan | |
| | Ethan Stewart | data a tha alta O | | | State: New York | |
| | al circumstances e | | L - 10 | | Community ID: W42 | |
| | - | ydrology been distur | pea? | | Station ID: Transect 42.2 | |
| | ea a potential probl | em area? | | | Plot ID: Upland | |
| Vegetatio | | | | | | |
| Dominant | Species | | Common Name | 9 | % Cover | Indicator |
| <u>Herbaceous</u> | <u>s</u> Sphagnum sp. | | | | | |
| | Athyrium thelypte | roides | Fern,Silvery Lac | dy | | FAC |
| <u>Tree</u> | | | | | | |
| X | Tsuga canadensi | 3 | Hemlock,Easter | | | FACU |
| % Species th | <i>Fagus grandifolia</i> hat are OBL FACV | /, or FAC (except FA | Beech, America | | vardin Classification: | FACU |
| Remarks | | , o (except | ,. • | 00. | | |
| | | | | | | |
| Hydrolog | v | | | | | |
| ٠ . | - | | Primary Wetland Hydro | ology Indicators | | |
| | led Data (describe | , | [] Inundated | and Other steel | Oxidized root | |
| | Stream, Lake, or Tid | ie Gage | [] Saturated in upp | er 12 inches | [] Water-stained | |
| | Aerial Photograph | | [] Water marks | | [] Local soil surv | - |
| [] C | Other (describe in re | emarks) | [] Drift lines | : | [] FAC-Neutral to | |
| Field Obse | rvations: | | [] Sediment depos | | [] Other (explain | in remarks) |
| Dept | h of Surface Water | (in.): 0 | [] Drainage patterr | ns in wetlands | | |
| | h to Free Water in | | | | | |
| • | h to Saturated Soil | , , | | | | |
| Remarks | | | | | | |
| Remarks | | | | | | |
| Soils | | | | | | |
| | | Maula / Oad Mau | ul - | T | | |
| | or. Matrix | Mottle / 2nd Mot | | | xture, ucture, etc. | |
| (in.) 2-0 O | Color 5YR 3/1 | Color | Abundance Cont | | composed leaves | |
| 0-12 A | 5YR 4/3 | 5YR 5/3 | few | | Loam | |
| | | 01110/0 | | | | |
| Hydric Soil | ls Indicators | | | | | |
| [] Histo | osol | | [] Concre | | | |
| [] Histi | ic Epipedon | | | rganic % in Su | ırface Layer | |
| [] Sulfi | idic Odor | | | c Streaking | | |
| | pable Aquatic Mois | Regime | | on Local Hydri | | |
| []Red | lucing Conditions | | [] Listed | on National Hy | dric Soils List | |
| [] Gley | yed or Low-Chroma | Colors | [] Other (| explain in rem | arks) | |
| Unit Name: | | | Taxonomy: | | | |
| Drainage C | | | • | ervations matc | h man | |
| Diamage C | nass. | | | orvations mate | παρ | |
| Remarks | | | | | | |
| Rock at 12 | | | | | | |
| Wetland [| Determination | 1 | | | | |
| | hytic Vegetation P | | [] This Da | ata Point is a V | Vetland | |
| | Soils Present | COOTIL | [] 11113 D | | rodalid | |
| | d Hydrology Prese | nt | | | | |
| Remarks | a riyarology i 1656 | n. | | | | |
| | | | | | | |
| Upland | | | | | | |

Job Number: 100309 **Data Form**

City: Thompson

Routine Wetland Determination Wetland Data Point: W42(wetland)

| Project/S | Site: (| Concord Resort, 1 | Thompson, NY | | | Da | te: October 20, 2004 | | |
|---|---------|------------------------|-------------------|------------------|---|------------|------------------------|--------------|--|
| Applicant/Owner: Concord Associates, LP | | | | Co | County: Sullivan | | | | |
| Investiga | ator: I | Ethan Stewart | | | | Sta | State: New York | | |
| [X] Do n | normal | circumstances exi | st on the site? | | | Co | mmunity ID: W42 | | |
| [] Have | e vege | tation, soils, or hyd | Irology been dist | urbed? | | Sta | tion ID: Transect 42.2 | | |
| [] Is the | e area | a potential probler | m area? | | | Plo | t ID: Wetland | | |
| Vegeta | tion | | | | | | | | |
| Domina | | Species | | Commo | n Name | | % Cover | Indicator | |
| Herbace | | • | | | | | | | |
| X | | Thelypteris novebo | | Fern,Nev | w York | | | FAC | |
| | | hthyrium thelyptero | ides | Fern,Silv | ery Lady | | | FAC | |
| Shrub | 3 | Sphagnum sp. | | | | | | | |
| <u>Shrub</u> | F | Rhododendron max | kimum | Rhodode | endron,Rosebay | / | | FAC | |
| Tree | • | inododonaron max | arram. | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ' | | | |
| X | 7 | Suga canadensis | | Hemlock | | | | FACU | |
| | | Acer rubrum | | Maple,R | ed | | | FAC | |
| % Speci | | agus grandifolia | or EAC (except l | Beech | | Coward | in Classification: | FAC+ | |
| Remark | | t are OBL, FACW, | or FAC (except) | FAC-). 30 | | Cowaru | iii Giassiiication. | | |
| Remark | S | | | | | | | | |
| | 1 | | | | | | | | |
| Hydrol | ogy | | | Primary Wetland | d Hydrology Ind | licators | Secondary Hydrolog | y Indicators | |
| [] Re | cordec | d Data (describe in | remarks) | [X] Inundated | d | | [X] Oxidized root | channels | |
| | | eam, Lake, or Tide | | [X] Saturated | d in upper 12 in | ches | [X] Water-stained | lleaves | |
| | | rial Photograph | • | [X] Water ma | | | [] Local soil surv | vey data | |
| _ | - | ner (describe in ren | narks) | Drift lines | | | [] FAC-Neutral t | • | |
| | | | -, | [X] Sedimen | | | Other (explain | | |
| Field C | | | | | patterns in wet | lands | [] (| , | |
| | | of Surface Water(ir | | [M] Dramago | pattorno in wo | iariao | | | |
| [| Depth 1 | to Free Water in Pi | it(in.): 0 | | | | | | |
| [| Depth 1 | to Saturated Soils(| in.): 0 | | | | | | |
| Remar | ·ke | | | | | | | | |
| rtemai | No | | | | | | | | |
| Soils | | | | | | | | | |
| | | | M (1) (0 1M | | | - . | | | |
| Depth | Hor. | Matrix | Mottle / 2nd M | | Contract | Texture | • | | |
| (in.) 4-0 | 0 | Color GLEY2 2.5/5PB | Color | Abundance | Contrast | Structu | nposed leaves | | |
| 0-3 | A | 10YR 4/1 | 10YR 6/1 | common | | Silt | iposeu ieaves | | |
| 3-12 | Bg | 101R 4/1 10YR 6/1 | 5YR 6/4 | common | | Silt | | | |
| 3-12 | ьg | 10110/1 | 7.5YR 6/6 | common | | Oilt | | | |
| | | | 7.011070 | CONTINUE | | | | | |
| • | | Indicators | | | | | | | |
| [] | Histos | ol | | [] | Concretions | | | | |
| [] | Histic | Epipedon | | [] | High Organic % | in Surfac | e Layer | | |
| [X] | Sulfidi | c Odor | | | Organic Streak | | | | |
| [X] | Proba | ble Aquatic Moist F | Regime | [] | Listed on Local | Hydric Sc | oils List | | |
| [X] | Reduc | ing Conditions | | [] | Listed on Natio | nal Hydric | Soils List | | |
| [X] | Gleye | d or Low-Chroma (| Colors | [] | Other (explain i | n remarks | s) | | |
| | • | | | | , , | | | | |
| Unit Na | | | | Taxono | • | | | | |
| Draina | ge Cla | SS: | | [] Fie | ld Observations | match m | ар | | |
| Remark | S | | | | | | | | |
| Motion | 'Y D- | tormination | | | | | | | |
| | | etermination | aant | [V] | Thio Data Daire | io o Mari | and | | |
| | | tic Vegetation Pres | sent | [X] | This Data Point | is a Wetla | ana | | |
| | | oils Present | | | | | | | |
| | | Hydrology Present | | | | | | | |
| Remark | S | | | | | | | | |

| [X] Do norr [] Have vo [X] Is the a | e: Concord Resort Owner: Concord A: r: Ethan Stewart mal circumstances e egetation, soils, or h rea a potential proble | exist on the site? ydrology been dist | urbed? | | Cou Stat Con Stat | e: October 20, 2004 inty: Sullivan e: New York nmunity ID: W40 ion ID: Transect 40.1 ID: Upland | |
|--|---|--|---|---|---|---|--------------|
| Vegetation | | | 6 | . Nama | | 0/ 0 | la dia atau |
| Dominant Herbaceou | Species | | Commoi | 1 Name | | % Cover | Indicator |
| X | Sphagnum sp. | | | | | | |
| _ | Juniperus virginia | ana | Cedar,Ea | astern Red | | | FACU |
| <u>Tree</u> X | Pinus strobus | | Pine Fas | stern White | | | FACU |
| Λ. | Fagus grandifolia | | Beech | terri write | | | FAC+ |
| % Species Remarks | that are OBL, FACV | V, or FAC (except | FAC-): 0 | | Cowardi | n Classification: | |
| Hydrolog | ау | | Primary Wetland | d Hydrology Ind | icators | Secondary Hydrolog | v Indicators |
| | ded Data (describe | in remarks) | [] Inundated | | | [] Oxidized root | |
| | Stream, Lake, or Tie | • | | - d in upper 12 inc | ches | [] Water-stained | |
| | Aerial Photograph | · · | [] Water ma | | | [] Local soil surv | vey data |
| | Other (describe in r | emarks) | [] Drift lines | | | [] FAC-Neutral t | est |
| Field Obe | ervations: | | [] Sediment | deposits | | [] Other (explain | in remarks) |
| | oth of Surface Water | r(in): 0 | [] Drainage | patterns in wetl | lands | | |
| | oth to Free Water in | , , | | | | | |
| | oth to Saturated Soil | | | | | | |
| • | our to Gataratea Gon | (III.). >2- | | | | | |
| Remarks | | | | | | | |
| Soils | | | | | | | |
| Depth H | lor. Matrix | Mottle / 2nd M | lottle | | Texture | , | |
| (in.) | Color | Color | Abundance | Contrast | Structur | | |
| . , | | | | | docomi | posed leaves | |
| 2-0 C | | EV/D 4/0 | | | | bosca icaves | |
| 2-0 C | 5YR 4/4 | 5YR 4/3 | common | | Silt | oosed leaves | |
| 2-0 C 0-7 A 7-12 E | 5YR 4/4 5YR 5/6 | 5YR 4/3 5YR 5/3 | common | | | oosea leaves | |
| 2-0 C 0-7 A 7-12 E Hydric Sc | 5YR 4/4 5YR 5/6 oils Indicators | | common | | Silt | oosed leaves | |
| 2-0 C 0-7 A 7-12 E Hydric Sc | 5YR 4/4 5YR 5/6 oils Indicators | | common | Concretions | Silt Silt | | |
| 2-0 C 0-7 A 7-12 E Hydric Sc [] His | 5 5YR 4/4 5 5YR 5/6 sils Indicators stosol stic Epipedon | | common [] | High Organic % | Silt Silt | | |
| 2-0 C 0-7 A 7-12 E Hydric Sc [] His [] Su | 5 5YR 4/4 5 5YR 5/6 sils Indicators stosol stic Epipedon Ifidic Odor | 5YR 5/3 | common [] [] [] [] [| High Organic % Organic Streaki | Silt Silt in Surface | e Layer | |
| 2-0 C 0-7 A 7-12 E Hydric Sc [] His [] Su [] Pro | 5 YR 4/4 5 5YR 5/6 sils Indicators stosol stic Epipedon Ifidic Odor obable Aquatic Mois | 5YR 5/3 | common [] [] [] [] [] [] | High Organic % Organic Streaki Listed on Local | Silt Silt in Surface ng Hydric Soi | e Layer Is List | |
| 2-0 C 0-7 A 7-12 E Hydric Sc [] His [] Su [] Pro [] Re | 5 5YR 4/4 5 5YR 5/6 sils Indicators stosol stic Epipedon Iffdic Odor obable Aquatic Mois ducing Conditions | 5YR 5/3 | common [] [] [] [] [] [] | High Organic % Organic Streaki Listed on Local Listed on Natior | Silt Silt Silt sin Surface ng Hydric Soi nal Hydric | e Layer Is List Soils List | |
| 2-0 C 0-7 A 7-12 E Hydric Sc [] His [] Su [] Pro [] Re | 5 YR 4/4 5 5YR 5/6 sils Indicators stosol stic Epipedon Ifidic Odor obable Aquatic Mois | 5YR 5/3 | common [] [] [] [] [] [] | High Organic % Organic Streaki Listed on Local | Silt Silt Silt sin Surface ng Hydric Soi nal Hydric | e Layer Is List Soils List | |
| 2-0 C 0-7 A 7-12 E Hydric Sc [] His [] Su [] Pro [] Re | 5YR 4/4 5YR 5/6 ills Indicators stosol stic Epipedon Iffidic Odor obable Aquatic Mois ducing Conditions eyed or Low-Chroma | 5YR 5/3 | common [] [] [] [] [] [] | High Organic % Organic Streaki Listed on Local Listed on Natior Other (explain in | Silt Silt Silt sin Surface ng Hydric Soi nal Hydric | e Layer Is List Soils List | |
| 2-0 C 0-7 A 7-12 E Hydric Sc [] His [] Su [] Pro [] Re [] Gle | 5YR 4/4 5YR 5/6 fils Indicators stosol stic Epipedon Iffidic Odor bable Aquatic Mois ducing Conditions eyed or Low-Chroma | 5YR 5/3 | common [] [] [] [] [] [] [] Taxono | High Organic % Organic Streaki Listed on Local Listed on Natior Other (explain in | Silt Silt sin Surface ng Hydric Soi nal Hydric n remarks) | e Layer Is List Soils List | |
| 2-0 C 0-7 A 7-12 E Hydric Sc [] His [] Su [] Pro [] Re [] Gle Unit Nam | 5YR 4/4 5YR 5/6 fils Indicators stosol stic Epipedon Iffidic Odor bable Aquatic Mois ducing Conditions eyed or Low-Chroma | 5YR 5/3 | common [] [] [] [] [] [] [] Taxono | High Organic % Organic Streaki Listed on Local Listed on Natior Other (explain in omy: | Silt Silt sin Surface ng Hydric Soi nal Hydric n remarks) | e Layer Is List Soils List | |
| 2-0 C 0-7 A 7-12 E Hydric Sc []His []Su []Pr []Re []Gle Unit Nam Drainage Remarks | 5YR 4/4 5YR 5/6 fils Indicators stosol stic Epipedon Iffidic Odor bable Aquatic Mois ducing Conditions eyed or Low-Chroma | 5YR 5/3 It Regime a Colors | common [] [] [] [] [] [] | High Organic % Organic Streaki Listed on Local Listed on Natior Other (explain in omy: | Silt Silt sin Surface ng Hydric Soi nal Hydric n remarks) | e Layer Is List Soils List | |

Job Number: 100309 **Data Form Routine Wetland Determination**

City: Thompson Wetland Data Point: W40(wetland)

| Applican Investiga [X] Do n [] Have [] Is the | Site: Concord Resort, T at/Owner: Concord Asso- ator: Ethan Stewart formal circumstances exist e vegetation, soils, or hydi- e area a potential problem | ociates, LP it on the site? rology been disturb | ped? | Date: October 20, 2004 County: Sullivan State: New York Community ID: W40 Station ID: Transect 40 Plot ID: Wetland | |
|---|--|--|--|--|-----------------------------|
| Vegeta Domina | | | Common Name | % Co | ver Indicator |
| Herbace | | | Common Hame | ,, , , | voi maioatoi |
| X | Thelypteris novebor Sphagnum sp. Juniperus virginiana | | Fern,New York Cedar,Eastern Red | | FAC FACU |
| <u>.</u> | Lycopodium obscur | um | Clubmoss,Tree | | FACU |
| <u>Shrub</u> X | Rhododendron max | imum | Phododondron Posobov | , | FAC |
| Tree | Knododendron max | imum | Rhododendron,Rosebay | | FAC |
| X | Tsuga canadensis Pinus strobus Betula alleghaniens. Fagus grandifolia | is | Hemlock,Eastern Pine,Eastern White Birch,Yellow Beech | 75 3 | FACU FACU FAC FAC+ |
| % Speci | es that are OBL, FACW, of | or FAC (except FA | | Cowardin Classification: | |
| Remarks | | (3 | - / | | |
| | | | | | |
| Hydrol | ogy | P | rimary Wetland Hydrology Indi | icators Secondary Hydr | ology Indicators |
| - | corded Data (describe in | | [X] Inundated | [X] Oxidized | |
| |] Stream, Lake, or Tide | | [X] Saturated in upper 12 inc | • • | |
| | Aerial Photograph | Cago | [X] Water marks | [] Local soil | |
| |] Other (describe in rem | arks) | [X] Drift lines | [] FAC-Neut | • |
| | | , | [] Sediment deposits | • • | olain in remarks) |
| | bservations: | | [X] Drainage patterns in wetl | , , | , |
| | Depth of Surface Water(in | | [X] Diamage patterns in trea | | |
| | Depth to Free Water in Pit | ` ' | | | |
| | Depth to Saturated Soils(in | n.): 0 | | | |
| Remar | ks | | | | |
| | | | | | |
| Soils | | | | | - |
| Depth | Hor. Matrix | Mottle / 2nd Mott | le. | Texture, | |
| (in.) | Color | Color | Abundance Contrast | Structure, etc. | |
| 2-0 | O GLEY2 2.5/5PB | | | decomposed leaves | |
| 0-8 | Ag GLEY1 3/N | GLEY1 4/N | few | Silt . | |
| 8-14 | B GLEY1 5/N | 5YR 5/8 | many | Sandy Loam | |
| Hudrio | Soils Indicators | | | | |
| • | Histosol | | [] Concretions | | |
| | Histic Epipedon | | [] High Organic % | in Surface Layor | |
| | | | | - | |
| | Sulfidic Odor Probable Aquatic Moist P | ogimo | [] Organic Streaki | = | |
| | Probable Aquatic Moist R | egime | [] Listed on Local | - | |
| | Reducing Conditions | 'alara | [] Listed on Nation | - | |
| [X] | Gleyed or Low-Chroma C | STOIOFS | [] Other (explain in | n remarks) | |
| Unit Na Draina | ame: ge Class: | | Taxonomy: [] Field Observations | s match map | |
| Remarks | - | | • • | • | |
| Wetlan | d Determination | | | | |
| [X] Hyo [X] Hyo [X] We | drophytic Vegetation Pres dric Soils Present etland Hydrology Present | ent | [X] This Data Point | is a Wetland | |
| Remarks | 5 | | | | |

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been dis [X] Is the area a potential problem area? | turbed? | Date: October 20, 2004 County: Sullivan State: New York Community ID: W39 Station ID: Transect 39.1 Plot ID: Upland |
|--|---|---|
| Vegetation Dominant Species | Common Nai | me % Cover Indicator |
| Herbaceous Sphagnum sp. Tree | Common Nai | ne % Cover indicator |
| X Fagus grandifolia Acer rubrum Pinus strobus | Beech Maple,Red Pine,Eastern | |
| % Species that are OBL, FACW, or FAC (except Remarks | FAC-): 100 | Cowardin Classification: |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hyd [] Inundated [] Saturated in u [] Water marks [] Drift lines [] Sediment depo [] Drainage patte | [] Oxidized root channels pper 12 inches [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test osits [] Other (explain in remarks) |
| Soils | | |
| Depth Hor. Matrix Mottle / 2nd M | | Texture, |
| (in.) Color Color 1-0 O 5YR 3/1 0-8 A 5YR 4/4 5YR 5/3 8-11 B 5YR 4/3 | Abundance Co | ontrast Structure, etc. decomposed leaves Silt Silt |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: | [] Orga [] Listed [] Listed | cretions Organic % in Surface Layer nic Streaking d on Local Hydric Soils List d on National Hydric Soils List r (explain in remarks) |
| Drainage Class: | [] Field Ob | oservations match map |
| Remarks Rock at 12" | | |
| Wetland Determination | | |
| [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | []This | Data Point is a Wetland |

Job Number: 100309 City: Thompson

Wetland Data Point: W39(wetland)

| Project/Site: | Concord Resort, Thompson, N | Date: October 20, 2 | 2004 |
|---------------|--|--|----------------------|
| Applicant/O | wner: Concord Associates, LP | County: Sullivan | |
| Investigator: | Ethan Stewart | State: New York | |
| [X] Do norm | nal circumstances exist on the site? | Community ID: W39 |) |
| [] Have ve | getation, soils, or hydrology been di | sturbed? Station ID: Transec | t 39.1 |
| [X] Is the ar | ea a potential problem area? | Plot ID: Wetland | |
| Vegetatio | n . | | |
| Dominant | | Common Name % | Cover Indicator |
| Herbaceou | | John Name 70 | COVET INGICATOR |
| X | Aster umbellatus | Aster,Flat-Top White | FACW |
| | Thelypteris noveboracensis | Fern,New York | FAC |
| | Juniperus virginiana | Cedar,Eastern Red | FACU |
| | Lycopodium obscurum | Clubmoss,Tree | FACU |
| | Euonymus americanus | Strawberry-Bush,American | FAC |
| <u>Shrub</u> | Sphagnum sp. | | |
| X | Vaccinium amoenum | Blueberry, Highbush | FACW |
| <u>Tree</u> | | ,, g | - |
| X | Acer rubrum | Maple,Red | FAC |
| | Fagus grandifolia | Beech | FAC+ |
| 0/ 0 | Pinus strobus | Pine,Eastern White | FACU |
| • | hat are OBL, FACW, or FAC (excep | ot FAC-): 100 Cowardin Classification: | |
| Remarks | | | |
| | | | |
| Hydrolog | У | Primary Wetland Hydrology Indicators Secondary F | lydrology Indicators |
| [] Record | ded Data (describe in remarks) | | zed root channels |
| | Stream, Lake, or Tide Gage | | r-stained leaves |
| | Aerial Photograph | | soil survey data |
| | • • | | Neutral test |
| [](| Other (describe in remarks) | | |
| Field Obse | ervations: | | (explain in remarks) |
| Dept | th of Surface Water(in.): 0 | [X] Drainage patterns in wetlands | |
| | th to Free Water in Pit(in.): 0 | | |
| • | th to Saturated Soils(in.): 0 | | |
| БСР | in to Gatarated Gons(in.). | | |
| Remarks | | | |
| | | | |
| Soils | | | |
| Depth Ho | or. Matrix Mottle / 2nd | Mottle Texture, | |
| (in.) | Color Color | Abundance Contrast Structure, etc. | |
| 1-0 O | 5YR 3/1 | decomposed leaves | |
| 0-14 A | 5YR 5/3 5YR 5/2 | common Silty Clay | |
| | 5YR 6/4 | few | |
| Hydric Soi | ls Indicators | | |
| [] Hist | | [] Concretions | |
| | | | |
| | tic Epipedon | [] High Organic % in Surface Layer | |
| | fidic Odor | [] Organic Streaking | |
| | bable Aquatic Moist Regime | [] Listed on Local Hydric Soils List | |
| | ducing Conditions | [] Listed on National Hydric Soils List | |
| [] Gle | yed or Low-Chroma Colors | [] Other (explain in remarks) | |
| Unit Name | | Taxonomy: | |
| | | · · | |
| Drainage (| JI 1000. | [] Field Observations match map | |
| Remarks | | | |
| Wetland I | Determination | | |
| [X] Hvdror | phytic Vegetation Present | [X] This Data Point is a Wetland | |
| | Soils Present | | |
| | nd Hydrology Present | | |
| Remarks | , , | | |
| | | | |

| Project/Site: Concord Resort, Thompson, No. Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been di [X] Is the area a potential problem area? Vegetation | | Date: October 20, 2004 County: Sullivan State: New York Community ID: W38 Station ID: Transect 38.1 Plot ID: Upland |
|--|--|---|
| Dominant Species | Common Name | % Cover Indicator |
| Herbaceous X Golf Coarse Tree X Tsuga canadensis Fagus grandifolia % Species that are OBL, FACW, or FAC (excepted Remarks) | Hemlock,Eastern Beech,American of FAC-): 0 | FACU FACU Cowardin Classification: |
| Hydrology | Primary Wetland Hydrology | Indicators Secondary Hydrology Indicators |
| [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 | [] Inundated [] Saturated in upper 12 [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in |] Local soil survey data[] FAC-Neutral test[] Other (explain in remarks) |
| Remarks | | |
| Soils | | |
| Depth Hor. Matrix Mottle / 2nd (in.) Color Color | Mottle Abundance Contrast | Texture, |
| (in.) Color Color 0-6 A 7.5YR 4/2 7.5YR 6/4 6-14 B 7.5YR 7/1 5YR 5/8 5YR 4/3 14-16 C 7.5YR 6/8 7.5YR 4/2 | common common common common | Structure, etc. Silt Loam Silt Silt |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: | [] Organic Stre [] Listed on Lo | cal Hydric Soils List tional Hydric Soils List in in remarks) |
| Remarks | | |
| Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Po | oint is a Wetland |

Job Number: 100309 City: Thompson

Wetland Data Point: W38(wetland)

| Project/Site: | Concord Resort, T | hompson, NY | | Date: October 20, 2004 | |
|-------------------------|---------------------------------------|---------------------|---|---------------------------|---------------|
| | wner: Concord Asso | | | County: Sullivan | |
| Investigator: | : Ethan Stewart | , | | State: New York | |
| | nal circumstances exis | t on the site? | | Community ID: W38 | |
| | getation, soils, or hydr | | d? | Station ID: Transect 38.1 | |
| | ea a potential problem | | u . | Plot ID: Wetland | |
| | · · · · · · · · · · · · · · · · · · · | a di da : | | TIOTID. Welland | |
| Vegetatio | | | | | |
| Dominant | | | Common Name | % Cover | Indicator |
| <u>Herbaceous</u> | | | | | |
| Tree | Sphagnum sp. | | | | |
| X | Pinus strobus | | Pine, Eastern White | | FACU |
| X | Tsuga canadensis | | Hemlock,Eastern | | FACU |
| | Fagus grandifolia | | Beech | | FAC+ |
| % Species to Remarks | hat are OBL, FACW, o | or FAC (except FAC | ·): 0 | Cowardin Classification: | |
| Hydrolog | V | Prir | nary Wetland Hydrology Indica | tors Secondary Hydrolog | ny Indicators |
| | ded Data (describe in ı | | Inundated | [] Oxidized root | • |
| | • | , | X Saturated in upper 12 inche | | |
| | Stream, Lake, or Tide | - | • | • • | |
| | Aerial Photograph | | X] Water marks | [] Local soil sur | • |
| [](| Other (describe in rem | , |] Drift lines | [] FAC-Neutral t | |
| Field Obse | ervations: | | X] Sediment deposits | [] Other (explain | in remarks) |
| Dept | th of Surface Water(in | .): 4 | X] Drainage patterns in wetlan | ds | |
| | th to Free Water in Pit | | | | |
| | th to Saturated Soils(in | | | | |
| • | 10 Gataratoa Gono(| , | | | |
| Remarks | | | | | |
| Soils | | | | | |
| Depth Ho | or. Matrix | Mottle / 2nd Mottle | <u> </u> | Texture, | |
| <u>(in.)</u> | Color | Color | | Structure, etc. | |
| 6-0 O | | | | decomposed leaves | |
| 0-8 A | | | | Silt Loam | |
| 8-16 B | 5YR 5/2 | | | Silt Loam | |
| | | 5YR 7/6 | common | | |
| Hydric Soi | ls Indicators | | | | |
| [] Hist | tosol | | [] Concretions | | |
| [] Hist | tic Epipedon | | [] High Organic % in | Surface Layer | |
| | fidic Odor | | [X] Organic Streaking | - | |
| | bable Aquatic Moist R | egime | [] Listed on Local Hy | dric Soils List | |
| | ducing Conditions | 5 | [] Listed on National | | |
| | yed or Low-Chroma C | olors | Other (explain in re | - | |
| | | 0.0.0 | [] Calor (Oxplain in it | | |
| Unit Name | : : | | Taxonomy: | | |
| Drainage (| Class: | | [] Field Observations ma | atch map | |
| Remarks | | | | | |
| Wetland I | Determination | | | | |
| | ohytic Vegetation Pres | <u>ont</u> | [X] This Data Point is | a Wetland | |
| | • | CIIL | [A] This Data Follitis | a vvelianu | |
| | Soils Present | | | | |
| | nd Hydrology Present | | | | |
| Remarks | | | | | |
| | | | | | |

| Applicant/On Investigators [X] Do norm [] Have ve | wner: Concord Resort, wner: Concord As Ethan Stewart nal circumstances ex getation, soils, or hy ea a potential proble | sociates, LP kist on the site? vdrology been distr | urbed? | County: State: N Communi | ew York ty ID: W5 : Transect 5.1 (so | uth) |
|---|---|---|---|--|--|-----------------|
| Dominant | Species | | Common Name | е | % Cover | Indicator |
| <u>Herbaceou</u> | _ | | 0 5 / 5 | - · | | E4.011 |
| Х | Juniperus virginiai Lycopodium obsci | | Cedar,Eastern F Clubmoss,Tree | ≺ea . | | FACU FACU |
| <u>Tree</u> | Lycopodiam obser | aram | 0100111000,1100 | | | 17.00 |
| X | Tsuga canadensis | : | Hemlock, Easter | | | FACU |
| Х | Pinus strobus Carpinus carolinia | na | Pine,Eastern W Hornbeam,Ame | | | FACU FAC |
| | Fagus grandifolia | i ia | Beech, Americar | | | FACU |
| % Species t Remarks | hat are OBL, FACW | , or FAC (except I | FAC-): 0 | Cowardin Clas | sification: | |
| Hydrolog | V | | Duine a m. Matte a at the same | olooni lastinotore C | | · la dia a taua |
| | y ded Data (describe i | n remarke) | Primary Wetland Hydro I Inundated | ology indicators Si | econdary Hydrology Oxidized root (| |
| | Stream, Lake, or Tid | | [] Saturated in upp | ner 12 inches | [] Water-stained | |
| | Aerial Photograph | c Cago | [] Water marks | or 12 mones | [] Local soil surv | |
| | Other (describe in re | marks) | Drift lines | | [] FAC-Neutral te | - |
| | | , | [] Sediment depos | iits | [] Other (explain | |
| Field Obse | | | Drainage patterr | | | , |
| Dep | th of Surface Water(th to Free Water in F th to Saturated Soils | Pit(in.): >24 | | | | |
| Remarks | in to datarated conc | (III.). 22- | | | | |
| Soils | | | | | | |
| | or. Matrix | Mottle / 2nd M | ottle | Texture, | | |
| (in.) | Color | Color | Abundance Cont | | | |
| 1-0 O | 5YR 3/1 | | | decomposed | leaves | |
| 0-3 A | 2.5YR 4/3 | 2.5YR 6/4 | few | Silt | | |
| 2.15 D | EVD E/A | 5YR 5/8 | few | Cilt | | |
| 3-15 B | 5YR 5/4 | 5YR 5/8 | few | Silt | | |
| | | | | | | |
| • | ls Indicators | 5YR 4/2 | few | | | |
| [] Hist | tosol | 5 Y R 4/2 | [] Concre | | | |
| [] Hist | tosol tic Epipedon | 5YR 4/2 | [] Concre [] High O | rganic % in Surface Laye | ır | |
| [] Hist [] Hist [] Sult | tosol tic Epipedon fidic Odor | | [] Concre [] High O [] Organio | rganic % in Surface Laye c Streaking | | |
| [] Hist [] Hist [] Sult [] Pro | tosol tic Epipedon fidic Odor bable Aquatic Moist | | [] Concre [] High O [] Organio [] Listed o | rganic % in Surface Laye c Streaking on Local Hydric Soils List | | |
| []Hist []Hist []Sult []Pro []Red | tosol tic Epipedon fidic Odor | Regime | [] Concre [] High O [] Organio [] Listed o [] Listed o | rganic % in Surface Laye c Streaking | | |
| []Hist []Hist []Sult []Pro []Red | tosol tic Epipedon fidic Odor bable Aquatic Moist ducing Conditions yed or Low-Chroma | Regime | [] Concre [] High O [] Organio [] Listed o [] Other (Taxonomy: | rganic % in Surface Laye c Streaking on Local Hydric Soils List on National Hydric Soils I | | |
| [] Hist [] J Hist [] Sult [] Pro [] Rec [] Gle | tosol tic Epipedon fidic Odor bable Aquatic Moist ducing Conditions yed or Low-Chroma | Regime | [] Concre [] High O [] Organio [] Listed o [] Other (Taxonomy: | rganic % in Surface Laye c Streaking on Local Hydric Soils List on National Hydric Soils I explain in remarks) | | |
| [] Hist [] Sult [] Pro [] Rec [] Gle Unit Name Drainage C | tosol tic Epipedon fidic Odor bable Aquatic Moist ducing Conditions yed or Low-Chroma :: Class: | Regime Colors | [] Concre [] High O [] Organio [] Listed o [] Other (Taxonomy: | rganic % in Surface Laye c Streaking on Local Hydric Soils List on National Hydric Soils I explain in remarks) | | |
| [] Hist [] J Hist [] Sult [] Pro [] Rec [] Gle Unit Name Drainage (Remarks | tosol tic Epipedon fidic Odor bable Aquatic Moist ducing Conditions yed or Low-Chroma | Regime Colors | [] Concre [] High O [] Organio [] Listed o [] Other (Taxonomy: [] Field Obse | rganic % in Surface Laye c Streaking on Local Hydric Soils List on National Hydric Soils I explain in remarks) | | |

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been disturbed? [X] Is the area a potential problem area? Vegetation | ? | Date: October 12, 2004 County: Sullivan State: New York Community ID: W5 Station ID: Transect 5.1 (north) Plot ID: Upland |
|---|--|--|
| Dominant Species | Common Name | % Cover Indicator |
| Herbaceous X Juniperus virginiana Sphagnum sp. Carex novae-angliae Lycopodium obscurum Tree X Acer rubrum Pinus strobus % Species that are OBL, FACW, or FAC (except FAC-): Remarks | Cedar,Eastern Red Sedge,New England Clubmoss,Tree Maple,Red Pine,Eastern White 50 Cov | FACU FACU FAC FAC FACU FACU FACU FACU FACU FACU |
| Hydrology Prima | ory Wotland Hydrology Indicator | Secondary Hydrology, Indicators |
| [] Recorded Data (describe in remarks) [| ary Wetland Hydrology Indicator] Inundated] Saturated in upper 12 inches] Water marks] Drift lines] Sediment deposits] Drainage patterns in wetlands | Secondary Hydrology Indicators [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| Depth Hor. Matrix Mottle / 2nd Mottle | oundance Contrast Str | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: | [] Concretions [] High Organic % in Su [] Organic Streaking [] Listed on Local Hydri [] Listed on National Hy [] Other (explain in rem Taxonomy: [] Field Observations mate | c Soils List vdric Soils List arks) |
| Remarks | | |
| Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a \ | Vetland |

Job Number: 100309 City: Thompson

Wetland Data Point: W5 (wetland)

| Applicant/O Investigate [X] Do nor [] Have v [X] Is the a | Owner: Concor: Ethan Steven mal circumstar regetation, soils area a potential On | esort, Thompson, NY ord Associates, LP wart aces exist on the site? s, or hydrology been dis problem area? | | Cou Stat Con Stat Plot | e: October 12, 2004 inty: Sullivan ie: New York inmunity ID: W5 ition ID: Transect 5.1 iID: Wetland | |
|--|---|---|---|--|--|--------------------------------------|
| Dominant Herbaceo | | | Common | Name | % Cover | Indicator |
| X Tree X | Sphagnum Carex capill Juniperus v Acer rubrun Pinus strobi | aris irginiana n | Sedge,Ha Cedar,Eas Maple,Red Pine,Easte FAC-): 50 | stern Red d ern White | n Classification: | FACW FACU FAC FACU |
| Hydrolo | av | | Driman Matland | I hadrology (Indicators | Casandan I hidralan | . Indiantora |
| [] Reco [] [] Field Obs De | rded Data (des Stream, Lake, Aerial Photogi Other (describ servations: pth of Surface pth to Free Wa pth to Saturate | raph be in remarks) | [] Inundated [] Saturated [] Water mar [] Drift lines [X] Sediment of | | Secondary Hydrology [] Oxidized root [X] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | channels leaves ey data est |
| Calla | | | | | | |
| Soils Depth I | Hor. Matrix Color | Mottle / 2nd N Color | Nottle Abundance | Texture Contrast Structur | • | |
| | O 5YR 3/1 A 2.5YR 4/3 | 5 | | decomp Silt | posed leaves | |
| | A 2.5YR 4/3 B 5YR 4/3 | 2.5YR 5/4 | few | Silt | | |
| []Hi []Hi []Su []Pr []Re | stic Epipedon ulfidic Odor obable Aquatic educing Conditi eyed or Low-C | | []H []C []L | Concretions ligh Organic % in Surface organic Streaking isted on Local Hydric Soi isted on National Hydric Sother (explain in remarks) | ils List Soils List | |
| Drainage | | | | ily. d Observations match ma | р | |
| Remarks | | | | | | |
| Wetland | Determina | ation | | | | |
| [X] Hydro [X] Hydri | ophytic Vegeta c Soils Present and Hydrology | tion Present | [x] T | his Data Point is a Wetla | nd | |

| Applicant/Ow Investigator: [X] Do norma [] Have veg [X] Is the are Vegetation Dominant Herbaceous X Tree X | Species | ist on the site? drology been disturt m area? pides | Common Nan Fern,Silvery La Cedar,Eastern Maple,Red Beech Pine,Eastern N | County: State: Commu Station Plot ID: ne ady Red | October 12, 2004 Sullivan New York Inity ID: W5 ID: Transect 5.2 Upland % Cover | Indicator FAC FACU FAC FAC+ FACU |
|--|---|--|---|--|--|--------------------------------------|
| Remarks | iat are OBL, FACW, | , or FAC (except FA | C-). 100 | Cowardin Ci | assilication. | |
| []S []A []C Field Obser Depth Depth | ed Data (describe ir tream, Lake, or Tide erial Photograph Other (describe in re | n remarks) e Gage marks) in.): 0 vit(in.): >24 | rimary Wetland Hyd. [] Inundated [] Saturated in up [] Water marks [] Drift lines [] Sediment depo [] Drainage patte | oper 12 inches | Secondary Hydrology [] Oxidized root of the content of the conte | channels leaves ey data est |
| Soils | | | | | | |
| | or. Matrix Color 5YR 3/1 2.5YR 5/4 2.5YR 5/4 | Mottle / 2nd Mot Color 2.5YR 6/4 10YR 4/6 | | Texture, Structure, e decompose Silt Silty Clay Le | ed leaves | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [X] Probable Aquatic Moist Regime [X] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: | | [] High ([] Orgar [] Listed [] Cither Taxonomy: | [] Concretions [] High Organic % in Surface Layer [] Organic Streaking [] Listed on Local Hydric Soils List [] Listed on National Hydric Soils List [] Other (explain in remarks) Taxonomy: [] Field Observations match map | | | |
| Remarks | | | | | | |
| [X] Hydropl [X] Hydric S | Determination hytic Vegetation Pre Soils Present d Hydrology Presen | esent | [X] This [| Data Point is a Wetland | | |

Job Number: 100309 City: Thompson

Wetland Data Point: W5 (wetland)

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been disturb [X] Is the area a potential problem area? | ed? | Date: October 12, 2004 County: Sullivan State: New York Community ID: W5 Station ID: Transect 5.2 Plot ID: Wetland | |
|---|---|--|---|
| Vegetation | Common Name | 0/ Cavan Indiantan | |
| Dominant Species Herbaceous | Common Name | % Cover Indicator | |
| X Impatiens capensis Aster umbellatus Euonymus americanus Sphagnum sp. | Touch-Me-Not,Spotted Aster,Flat-Top White Strawberry-Bush,American | FACW FACW FAC | |
| Tree X Acer rubrum Acer saccharum Fraxinus pennsylvanica % Species that are OBL, FACW, or FAC (except FAC | Maple,Red Maple,Sugar Ash,Green C-): 100 Co | FAC FACU- FACW wardin Classification: | |
| Remarks | | | |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 2 Depth to Free Water in Pit(in.): 0 Depth to Saturated Soils(in.): 0 | rimary Wetland Hydrology Indicator [] Inundated [X] Saturated in upper 12 inches [X] Water marks [] Drift lines [] Sediment deposits [X] Drainage patterns in wetlands | [] Oxidized root channels [X] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) | _ |
| Soils | | | |
| Depth Hor. Matrix Mottle / 2nd Mottl | le Te | xture, | |
| (in.) Color Color 1-0 O 5YR 3/1 0-3 A 5YR 5/3 3-14 B 2.5YR 4/4 | | | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [X] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors | [] Concretions [] High Organic % in Some streaking [] Listed on Local Hydr [] Listed on National Hydr [] Other (explain in rem | ic Soils List ydric Soils List | |
| Unit Name: Drainage Class: | Taxonomy: [] Field Observations mate | ch map | |
| Remarks | | | |
| Wetland Determination | | | |
| [X] Hydrophytic Vegetation Present [X] Hydric Soils Present [X] Wetland Hydrology Present Remarks | [X] This Data Point is a N | Wetland | |

| Applicant Investiga [X] Do not [] Have [X] Is the | t/Owner tor: E ormal or veget e area | er: Concord A Ethan Stewart circumstances e | exist on the site? ydrology been dist | urbed? | | Coun State Comr Statio | October 20, 2004 ity: Sullivan : New York munity ID: W37 on ID: Transect 37.1 D: Upland | |
|--|---|--|--|--|-------------------------|---------------------------------|--|--------------------|
| Vegetat Dominar | | nooioo | | Commo | n Nama | | % Cover | Indicator |
| Herbace | | pecies | | Commo | n Name | | % Cover | mulcator |
| X | c | arex scabrata | | Sedge,R | ough | | | OBL |
| <u>Shrub</u> X | R | Rhododendron m | aximum | Rhodode | endron,Rosebay | / | | FAC |
| <u>Tree</u> | 7 | auga aanadanai | · 0 | Hemlock | Eastorn | | | FACU |
| % Specie | | <i>suga canadensi</i> are OBL, FACV | V, or FAC (except | | ,Lasieiii | Cowardin | Classification: | FACO |
| Remarks | ; | | | | | | | |
| [| corded] Stre | Data (describe eam, Lake, or Tio ial Photograph | | Primary Wetland [] Inundated [] Saturated [] Water ma | d d in upper 12 in | | Secondary Hydrology [] Oxidized root [] Water-stained [] Local soil surv | channels leaves |
| - | - | er (describe in r | emarks) | Drift lines | | | [] FAC-Neutral to | , |
| Field Ol D D | bserva Depth of Depth to Depth to | | r(in.): 0 Pit(in.): >24 | [] Sediment | | ilands | [] Other (explain | |
| Remark | KS | | | | | | | |
| Soils | | | | | | | | |
| Depth | Hor. | Matrix | Mottle / 2nd M | | | Texture, | | |
| (in.) 2-0 | 0 | Color 5YR 3/1 | Color | Abundance | Contrast | Structure decompo | s, etc. Osed leaves | |
| 0-5 | A | 2.5YR 5/3 | 2.5YR 4/2 | few | | Silt Loam | | |
| 5-11 | В | 5YR 4/6 | 7.5YR 5/4 | common | | Sandy Lo | oam | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors | | [] Concretions [] High Organic % in Surface Layer [] Organic Streaking [] Listed on Local Hydric Soils List [] Listed on National Hydric Soils List [] Other (explain in remarks) | | | | | | |
| Unit Na Drainag | | se. | | Taxono | omy: ld Observations | s match man | | |
| Remarks | | | | [], 10 | Obodivation | a.on map | | |
| \A/=4!=: | -1 P | 4 a maa ! 4 ! | | | | | | |
| [] Hyd [] Hyd | drophy dric So tland H | etermination tic Vegetation P ils Present Hydrology Prese | resent | [] | This Data Point | t is a Wetlan | d | |

Job Number: 100309 **Data Form**

City: Thompson

Routine Wetland Determination Wetland Data Point: W37(wetland)

| Applicant/Ov Investigator: [X] Do norm [] Have ve | Concord Resort, Thompson, vner: Concord Associates, LP Ethan Stewart al circumstances exist on the site getation, soils, or hydrology been a a potential problem area? | ? | Date: October 20, 2004 County: Sullivan State: New York Community ID: W37 Station ID: Transect 37.1 Plot ID: Wetland |
|---|--|--|--|
| Vegetatio | | | |
| Dominant | Species | Common Name | % Cover Indicator |
| Herbaceous | - | Common Hame | 70 GOVOI III MINIOUTOI |
| X | Aster umbellatus Euonymus americanus Aster simplex Sphagnum sp. | Aster,Flat-Top White Strawberry-Bush,American Aster,Panicled | FACW FAC FACW |
| | Athyrium thelypteroides Thelypteris noveboracensis | Fern,Silvery Lady Fern,New York | FAC FAC |
| Shrub | Thelyptens noveboracensis | rem,new fork | FAC |
| X | Rhododendron maximum | Rhododendron, Rosebay | FAC |
| <u>Tree</u> | | , | |
| X X | Fagus grandifolia Tsuga canadensis Acer rubrum Betula alleghaniensis | Beech Hemlock,Eastern Maple,Red Birch,Yellow | FAC+ FACU FAC FAC |
| % Species th | nat are OBL, FACW, or FAC (exc | | wardin Classification: |
| Remarks | , · | | |
| Hydrolog | У | Primary Wetland Hydrology Indicator | rs Secondary Hydrology Indicators |
| [] Record | ed Data (describe in remarks) | [] Inundated | [] Oxidized root channels |
| | Stream, Lake, or Tide Gage | [X] Saturated in upper 12 inches | [X] Water-stained leaves |
| | Aerial Photograph | Water marks | [] Local soil survey data |
| | Other (describe in remarks) | [] Drift lines | [] FAC-Neutral test |
| 1 10 | other (describe in remarks) | Sediment deposits | Other (explain in remarks) |
| Field Obse | rvations: | | , |
| Dept | h of Surface Water(in.): 0 | [] Drainage patterns in wetlands | ; |
| • | h to Free Water in Pit(in.): 0 | | |
| | h to Saturated Soils(in.): 0 | | |
| Бері | ii to Saturated Solis(iii.). V | | |
| Remarks | | | |
| . | | | |
| Soils | | | |
| | or. Matrix Mottle / 2r | | exture, |
| (in.) | Color Color | | ructure, etc. |
| 0-14 AE | | • | lt Loam |
| | 7.5YR 6/2 | many | |
| Hvdric Soil | s Indicators | | |
| [] Hist | osol | [] Concretions | |
| | ic Epipedon | [] High Organic % in S | urface Laver |
| | idic Odor | [] Organic Streaking | anaco Layor |
| | | | io Soila List |
| | pable Aquatic Moist Regime | [] Listed on Local Hydr | |
| | ucing Conditions | [] Listed on National H | |
| [X] Gley | ed or Low-Chroma Colors | [] Other (explain in ren | narks) |
| Unit Name: | : | Taxonomy: | |
| Drainage C | Class: | [] Field Observations mate | ch map |
| Remarks | | | |
| Redox Fea | atures | | |
| | Determination | | |
| | | DVITE: B + B + + C | A A / a Al a a a d |
| | hytic Vegetation Present | [X] This Data Point is a | vvetiana |
| | Soils Present | | |
| [X] Wetlan | d Hydrology Present | | |
| Remarks | | | |

| Project/Site: Concord Resort, Thompso Applicant/Owner: Concord Associates, Investigator: Ethan Stewart [X] Do normal circumstances exist on the second in t | _P site? | Date: October 20, 2004 County: Sullivan State: New York Community ID: W37 Station ID: Transect 37.2 Plot ID: Upland |
|--|--|--|
| Vegetation Dominant Species | Common Name | % Cover Indicator |
| Herbaceous | Johnnon Name | 70 OOVEL HIGHORIES |
| X Golf Coarse | | |
| % Species that are OBL, FACW, or FAC (6 | except FAC-): 0 C | owardin Classification: |
| Remarks | | |
| Golf coarse/manacured lawn | | |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >2 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicate [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetland | [] Oxidized root channels s [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| | 2nd Mottle | Fexture, |
| (in.) Color Color | | Structure, etc. |
| 0-7 A 7.5YR 4/1 7.5YR 7-14 B GLEY1 7/10Y 7.5YR 7.5YR | 6/8 many S | Silt Silty Clay |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [X] Gleyed or Low-Chroma Colors | [] Concretions [] High Organic % in S [] Organic Streaking [] Listed on Local Hyo [] Listed on National I [] Other (explain in re | dric Soils List Hydric Soils List |
| Unit Name: | Taxonomy: | , and the same |
| Drainage Class: Remarks | [] Field Observations ma | асп тар |
| Golf coarse soil | | |
| Wetland Determination [] Hydrophytic Vegetation Present [X] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a | a Wetland |

Job Number: 100309 City: Thompson

Wetland Data Point: W37(wetland)

| Application Applic | ant/Owigator: o normative vegue | ner: Concord A Ethan Stewart al circumstances etation, soils, or l a a potential prob | exist on the site? nydrology been distu | ırbed? | | Cour State Com Stati | e: October 20, 2004 http: Sullivan e: New York munity ID: W37 on ID: Transect 37.2 ID: Wetland | |
|--|--|---|--|---|--------------------------|-------------------------------|---|--|
| Vege | | | | 0 | - N | | 0/ 0 | In diameter |
| Domi: | nant aceous | Species | | Commoi | n Name | | % Cover | Indicator |
| X | | Panicum capillar Vahlodea atropu | | Witchgra Hairgras: | ss s,Mountain | | | FAC- FACW |
| <u>Tree</u> X | | Acer rubrum Fagus grandifolia Pinus strobus | э | Maple,Re Beech Pine Fas | ed tern White | | | FAC FAC+ FACU |
| % Spe Rema | | | W, or FAC (except F | | NOTITI WITHOUT | Cowardin | Classification: | 17.00 |
| Hydr | oloav | <u> </u> | | Primary Wetland | d Hydrology In | dicators | Secondary Hydrolog | ay Indicators |
| Field | [] Si [] Ai [] O I Obser Depth Depth | ed Data (describe tream, Lake, or T erial Photograph ther (describe in vations: a of Surface Wate a to Free Water in a to Saturated So | remarks) er(in.): 0 a Pit(in.): 3 | [X] Water ma [] Drift lines [] Sediment | l in upper 12 ir arks | | [] Oxidized roo [X] Water-staine [] Local soil sur [] FAC-Neutral [] Other (explai | t channels d leaves vey data test |
| Rem | arks | | | | | | | |
| Soils | | | | | | | | |
| Dept | th Ho | r. Matrix | Mottle / 2nd Mo | | | Texture, | | |
| (in.) 0-9 | Α | Color 10R 5/1 | Color 5YR 5/8 | Abundance many | Contrast | Structure Silt Loan | • | |
| 0.44 | 4.5 | 7.5\/D.5/4 | 5YR 7/1 | many | | 0.14.1 | | |
| 9-11 11-1 | | 7.5YR 5/1 10R 6/4 | 7.5YR 6/8 5YR 6/8 | many many | | Silt Loan Silt Loan | | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [X] Probable Aquatic Moist Regime [X] Reducing Conditions [X] Gleyed or Low-Chroma Colors | | | [] [] [] [] | [] Concretions [] High Organic % in Surface Layer [] Organic Streaking [] Listed on Local Hydric Soils List [] Listed on National Hydric Soils List [] Other (explain in remarks) | | | | |
| | Name: nage Cl | ass: | | Taxono [] Fie | omy: ld Observation | s match map | p | |
| Rema | rks | | | | | | | |
| [X] H [X] H | Hydroph Hydric S Wetland | Petermination Option Vegetation Fooils Present Hydrology Present | Present | [X] | This Data Poin | t is a Wetlar | nd | |

| Applicar Investiga [X] Do n [X] Have [X] Is the | nt/Owne ator: E normal c e vegeta e area a | oncord Resort, Tr: Concord Ass than Stewart ircumstances existion, soils, or hyd a potential probler | ociates, LP st on the site? rology been dist | urbed? | Cour State Com Stati | e: October 20, 2004 htty: Sullivan e: New York munity ID: W37 on ID: Transect 37.3 ID: Upland | |
|---|---|---|--|--|--|--|------------------------|
| Vegeta Domina | | ecies | | Common Name | e | % Cover II | ndicator |
| Herbace | eous | | | Common Name | <u> </u> | 70 00V EI II | Idicator |
| X <u>Tree</u> X % Speci Remarks | Ju es that | olf Coarse Grass niperus virginiana are OBL, FACW, | | Cedar,Eastern FAC-): 0 | | F n Classification: | ACU |
| Hydrol | ogy | | | Primary Wetland Hydro | ology Indicators | Secondary Hydrology Ir | adicators |
| Field C | corded] Streat] Aeria] Other Deservat Depth to Depth to | Data (describe in am, Lake, or Tide al Photograph er (describe in ren cions: f Surface Water(in Free Water in Pi Saturated Soils(i | Gage a.): 0 t(in.): >24 | [] Inundated [] Saturated in upp [] Water marks [] Drift lines [] Sediment depos [] Drainage pattern | per 12 inches | [] Oxidized root cha [] Water-stained lea [] Local soil survey [] FAC-Neutral test [] Other (explain in | annels aves data |
| Kemai | KS | | | | | | |
| Soils | | | | | | | |
| Depth (in.) | | Matrix Color | Mottle / 2nd M Color | lottle Abundance Cont | Texture, trast Structure | etc | |
| 0-6 | | 7.5YR 3/1 | 7.5YR 4/6 | common | Silt | 5, 010. | |
| 6-8 | | 5YR 3/4 | 5YR 5/8 | common | Silt Loan | n | |
| 8-9 | | 5YR 2.5/1 | 0.5VD.0.5/4 | fa | Silt | | |
| 9-14 | Ag | 10R 4/1 | 2.5YR 2.5/1 2.5YR 5/2 | few few | Silt | | |
| [] [] [] [] | Histoso Histic E Sulfidic Probabl Reducir Gleyed | pipedon | | [] Organi [] Listed [] Listed | etions organic % in Surface ic Streaking on Local Hydric Soil on National Hydric S (explain in remarks) | s List Soils List | |
| | ge Clas | s: | | , | ervations match map | o | |
| Remarks Buried | s d O and | Ag | | | | | |
| | | termination | | | | | |
| [] Hy | dric Soil etland H s | c Vegetation Pres s Present ydrology Present | sent | [] This Da | ata Point is a Wetlar | nd | |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W37(wetland)

| Applicant/Ow Investigator: [X] Do norma [] Have veg | Concord Resort, T ner: Concord Asso Ethan Stewart al circumstances exis etation, soils, or hydr a a potential problem | t on the site? | ped? | | Date: October 20, 2004 County: Sullivan State: New York Community ID: W37 Station ID: Transect 37.3 Plot ID: Wetland | 3 |
|--|---|----------------------------|---|---|--|-----------------------------|
| Vegetation | | | | | | |
| _ | Species | | Common N | ame | % Cove | er Indicator |
| <u>Herbaceous</u> X | Carex capillaris Carex disperma Athyrium thelypteroi Thelypteris novebon | | Sedge,Hair- Sedge,Soft- Fern,Silvery Fern,New Y | Leaf Lady | | FACW FACW+ FAC FAC |
| <u>Shrub</u> | ., | | 5 | | | E4014/ |
| X <u>Tree</u> X | Vaccinium corymbos | sum | Blueberry,H | ighbush | | FACW- |
| | Acer rubrum Betula alleghaniensi Fagus grandifolia Tsuga canadensis | 's | Maple,Red Birch,Yellow Beech Hemlock,Ea | stern | | FAC FAC FAC+ FACU |
| % Species the Remarks | at are OBL, FACW, o | or FAC (except FA | | Cov | vardin Classification: | |
| Hydrology | 1 | P | rimary Wetland H | ydrology Indicators | s Secondary Hydrol | logy Indicators |
| [] Si [] Ai [] O Field Obser Depth Depth | ed Data (describe in a tream, Lake, or Tide erial Photograph ther (describe in rem vations: a of Surface Water(in a to Free Water in Pit a to Saturated Soils(in | Gage arks) .): 0 (in.): 0 | [X] Water marks[] Drift lines[X] Sediment de | | [] Oxidized ro [X] Water-stain [] Local soil s [] FAC-Neutra [] Other (expl | ned leaves urvey data |
| Soils | | | | | | |
| | r. Matrix | Mottle / 2nd Mott | | | kture, | |
| (in.) 4-0 O | Color GLEY2 2.5/5PB | Color | Abundance C | | ucture, etc. composed leaves | |
| 0-12 A | 5YR 2.5/1 | 5YR 3/1 | common | | ndy Loam | |
| 12-16 B | 7.5YR 3/1 | 7.5YR 5/1 | few | | ndy Loam | |
| [] Sulfic [X] Prob [X] Redu | sool c Epipedon dic Odor able Aquatic Moist R ucing Conditions ed or Low-Chroma C | | [X] Hig [] Org [] List [] Oth Taxonomy | ncretions h Organic % in Suganic Streaking and on Local Hydric and on National Hyder ar (explain in remand) ber (explain matc | c Soils List dric Soils List arks) | |
| Wetland D | etermination | | | | | |
| [X] Hydroph [X] Hydric S | nytic Vegetation Pres Soils Present I Hydrology Present | ent | [X] Thi | s Data Point is a V | Vetland | |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination** Wetland Data Point: W46 Project/Site: Concord Resort, Thompson, NY Date: October 21, 2004 Applicant/Owner: Concord Associates, LP County: Sullivan Investigator: Ethan Stewart State: New York Community ID: W46 [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been disturbed? Station ID: Transect 46.1 [X] Is the area a potential problem area? Plot ID: Upland Vegetation **Dominant Species Common Name** % Cover Indicator **Herbaceous** Golf Coarse-grass % Species that are OBL, FACW, or FAC (except FAC-): 0 Cowardin Classification: Remarks Hydrology Primary Wetland Hydrology Indicators Secondary Hydrology Indicators [] Recorded Data (describe in remarks) [] Inundated [] Oxidized root channels [] Stream, Lake, or Tide Gage [] Saturated in upper 12 inches [] Water-stained leaves [] Aerial Photograph [] Water marks [] Local soil survey data [] Other (describe in remarks) [] Drift lines [] FAC-Neutral test [] Sediment deposits [] Other (explain in remarks) Field Observations: [] Drainage patterns in wetlands Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks Soils

| Depth Hor. Matrix | | Mottle / 2nd N | lottle | | Texture, | | |
|-------------------|----------|------------------|-----------|-----------|-----------------|------------------------|--|
| (in.) | | Color | Color | Abundance | Contrast | Structure, etc. | |
| 0-8 | Α | 7.5YR 3/2 | 7.5YR 4/1 | few | | Silt Loam | |
| | | | 7.5YR 5/8 | few | | | |
| Hydric | Soils I | Indicators | | | | | |
| [] | Histos | ol | | [] | Concretions | | |
| [] | Histic I | Epipedon | | [] | High Organic % | % in Surface Layer | |
| []: | Sulfidi | c Odor | | [] | Organic Streak | king | |
| 1 1 | Probal | ble Aquatic Mois | st Regime | [] | Listed on Loca | l Hydric Soils List | |
| 1 1 | Reduc | ing Conditions | · · | ii | Listed on Natio | onal Hydric Soils List | |
| [] | Gleye | d or Low-Chrom | a Colors | [] | Other (explain | in remarks) | |
| Unit Na | me: | | | Taxono | omy: | | |
| Drainag | ge Cla | ss: | | [] Fie | ld Observation | s match map | |
| Remarks | ; | | | | | | |
| Roch a | at 8" | | | | | | |
| etlan | d De | eterminatio | n | | | | |

| [|] Hydrophytic Vegetation Present |
|----|----------------------------------|
| [|] Hydric Soils Present |
| [|] Wetland Hydrology Present |
| Re | marks |
| ι | Jpland |

[] This Data Point is a Wetland

Job Number: 100309 City: Thompson

Wetland Data Point: W46(wetland)

| Project | /Site: | Concord Resort, 7 | Thompson, NY | | | Date: | October 21, 2004 | | |
|---|----------|--|------------------|----------------------|-------------------|--------------------|---------------------|---------------|--|
| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? | | | | | Count | y: Sullivan | | | |
| | | | steed? | | | New York | | | |
| | | | | | | | nunity ID: W46 | | |
| | | etation, soils, or hyd | | ırbed? | | | n ID: Transect 46.1 | | |
| | | a a potential probler | n area? | | | Plot II | D: Wetland | | |
| Veget | | | | _ | | | | | |
| Domin | | Species | | Commoi | n Name | | % Cover | Indicator | |
| <u>Herba</u> X | | Aster umbellatus | | Aster Fla | t-Top White | | | FACW | |
| Λ | | Carex granularis | | Sedge,M | | | | FACW+ | |
| | | Sphagnum sp. | | | | | | | |
| | | Athyrium thelyptero | | Fern,Silv | | | | FAC | |
| | | Thelypteris novebor Solidago austrina | racensis | Fern,Nev Golden-F | | | | FAC OBL | |
| | | Geum macrophyllui | n | | arge-Leaf | | | FACW | |
| <u>Tree</u> | | | | | _ | | | | |
| Х | | Acer rubrum | | Maple,Re | | | | FAC | |
| | | Acer saccharum Fagus grandifolia | | Maple,Sı Beech | ugar | | | FACU- FAC+ | |
| | | Tsuga canadensis | | Hemlock | .Eastern | | | FACU | |
| % Spe | | at are OBL, FACW, | or FAC (except F | | , | Cowardin | Classification: | | |
| Remar | ks | | | | | | | | |
| Hydro | Joay | , | | | | | | | |
| • | | | | Primary Wetland | | cators | Secondary Hydrolog | | |
| []R | | ed Data (describe in | | [X] Inundated | | | [] Oxidized root | | |
| | | ream, Lake, or Tide | Gage | | l in upper 12 inc | ches | [X] Water-stained | | |
| | | erial Photograph | | [X] Water ma | | | [] Local soil surv | • | |
| | []Ot | ther (describe in ren | narks) | [X] Drift lines | | | [] FAC-Neutral t | | |
| Field | Observ | vations: | | [] Sediment | • | | [] Other (explain | in remarks) | |
| | Depth | of Surface Water(in | n.): 0 | [X] Drainage | patterns in wetl | ands | | | |
| | | to Free Water in Pi | , | | | | | | |
| | | to Saturated Soils(| ` ' | | | | | | |
| D | • | ` | , | | | | | | |
| Rema | arks | | | | | | | | |
| Soils | | | | | | | | | |
| Depth | n Hor | . Matrix | Mottle / 2nd Mo | ottle | | Texture, | | | |
| (in.) | | Color | Color | Abundance | Contrast | Structure, | etc. | | |
| 1-0 | 0 | GLEY2 2.5/5PB | | _ | | | | | |
| 0-3 | A | 7.5YR 3/2 | 7.5YR 2.5/1 | few | | Silt Loam | | | |
| 3-9 | В | GLEY2 5/5PB | GLEY2 5/5PB | many | | Sand | | | |
| | | | 2.5YR 3/4 | few | | | | | |
| Hydri | c Soils | Indicators | | | | | | | |
| [|] Histo | sol | | [] | Concretions | | | | |
| [|] Histic | : Epipedon | | [] | High Organic % | in Surface L | ₋ayer | | |
| [|] Sulfic | dic Odor | | [] | Organic Streaki | ng | | | |
| [X |] Proba | able Aquatic Moist F | Regime | [] | Listed on Local | Hydric Soils | List | | |
| [X |] Redu | cing Conditions | | [] | Listed on Natior | nal Hydric So | oils List | | |
| [X |] Gleye | ed or Low-Chroma (| Colors | [] | Other (explain i | n remarks) | | | |
| Unit N | Name: | | | Taxono | omy: | | | | |
| Drain | age Cl | ass: | | | ld Observations | match map | | | |
| Remar | ks | | | | | | | | |
| Wetla | nd D | etermination | | | | | | | |
| | | ytic Vegetation Pre | sent | [X] | This Data Point | is a Wetland | 1 | | |
| | | oils Present | | [24] | | , | | | |
| | | Hydrology Present | | | | | | | |
| Remar | | | | | | | | | |

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been dis [X] Is the area a potential problem area? Vegetation Dominant Species Herbaceous | | Date: October 21, 2004 County: Sullivan State: New York Community ID: W45 Station ID: Transect 45.1 Plot ID: Upland % Cover Indicator |
|--|---|--|
| X Golf Coarse Tree Pinus strobus % Species that are OBL, FACW, or FAC (excep Remarks | Pine,Eastern White t FAC-): 0 | FACU Cowardin Classification: |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indica [] Inundated [] Saturated in upper 12 inch [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetland | [] Oxidized root channels les [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils Depth (in.) Hor. Color Matrix Color Mottle / 2nd Color 0-8 A 2.5YR 2.5/2 2.5YR 2.5/1 8-12 B 5YR 4/2 7.5YR 5/6 | Abundance Contrast few common | Texture, Structure, etc. Silt Silt |
| 7.5YR 4/1 Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: | [] Concretions [] High Organic % ii [] Organic Streaking [] Listed on Local H [] Listed on Nationa [] Other (explain in Taxonomy: [] Field Observations in | g lydric Soils List al Hydric Soils List remarks) |
| Remarks | | |
| Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is | s a Wetland |

Job Number: 100309 City: Thompson

Wetland Data Point: W45(wetland)

| - | | | • | | | e: October 21, 2004 | | |
|---|----------------|------------------------------|-----------------|------------------------------|------------------------|---------------------|---------------|--|
| Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart | | | | | Cou | County: Sullivan | | |
| Investigator: Ethan Stewart | | | | | Sta | te: New York | | |
| [X] Do normal circumstances exist on the site? | | | | | Cor | mmunity ID: W45 | | |
| [] Have vegetation, soils, or hydrology been dist | | | turbed? | Sta | tion ID: Transect 45.1 | | | |
| [X] Is the area a potential problem area? | | | | Plo | t ID: Wetland | | | |
| Veget | | | | | | | | |
| Domin | | Species | | Common Name | | % Cover | Indicator | |
| Herbad | | ppecies | | Common Name | <u> </u> | % Cover | inuicator | |
| X | | Aster umbellatus | | Aster,Flat-Top W | /hite | | FACW | |
| ^ | | Geum macrophyllur | n | Avens,Large-Lea | | | FACW | |
| | | Thelypteris novebor | | Fern.New York | ai. | | FAC | |
| | | Carex granularis | | Sedge, Meadow | | | FACW+ | |
| | E | Euonymus americai | านร | Strawberry-Bush | n,American | | FAC | |
| <u>Shrub</u> | | | | | | | | |
| _ | 5 | Solidago austrina | | Golden-Rod | | | OBL | |
| <u>Tree</u> | _ | - , . | | | | | E4011 | |
| Х | | Tsuga canadensis | | Hemlock,Easteri | n | | FACU | |
| | | Acer rubrum Pinus strobus | | Maple,Red Pine,Eastern Wh | nito | | FAC FACU | |
| | | agus grandifolia | | Beech | III.E | | FAC+ | |
| % Spec | | t are OBL, FACW, | or FAC (except | | Coward | in Classification: | IAUT | |
| Remark | | 000, 17,000, | c. 1710 (0x00pt | | Coward | Cacomodion. | | |
| Nomali | | | | | | | | |
| I Is a star | 1 = | | | | | | | |
| Hydro | iogy | | | Primary Wetland Hydro | logy Indicators | Secondary Hydrolog | y Indicators | |
| []R | ecorded | d Data (describe in | remarks) | [X] Inundated | | [] Oxidized root | channels | |
| | | eam, Lake, or Tide | | [X] Saturated in upper | er 12 inches | [X] Water-stained | d leaves | |
| | | rial Photograph | 9- | [X] Water marks | | [] Local soil sur | | |
| | | ner (describe in rem | arke) | | | [] FAC-Neutral | , | |
| | l J Oli | iei (nescribe ili tell | iai Nə) | Drift lines | to | | | |
| Field | Observ | ations: | | [] Sediment deposi | | [] Other (explain | n in remarks) | |
| | Depth | of Surface Water(in | .): 1 | [X] Drainage pattern | s in wetlands | | | |
| | | to Free Water in Pit | | | | | | |
| | • | to Saturated Soils(i | ` ' | | | | | |
| | Deptili | io Salurateu Solis(i | ii.). U | | | | | |
| Rema | arks | | | | | | | |
| | | | | | | | | |
| Soils | | | | | | | | |
| Depth | Hor | Matrix | Mottle / 2nd N | Nottle | Texture | 1 | | |
| (in.) | | Color | Color | Abundance Contr | | • | | |
| 1-0 | 0 | GLEY2 2.5/5PB | | | | | | |
| 0-4 | A | 2.5Y 4/1 | 10YR 3/1 | common | Silt | | | |
| 4-12 | В | 10YR 3/1 | 10YR 5/1 | common | Silt Loa | ım | | |
| 7-12 | 5 | 10110/1 | 10YR 6/6 | common | Oilt Loa | | | |
| | | | 10111 0/0 | OOMMON | | | | |
| • | | Indicators | | | | | | |
| [|] Histos | sol | | [] Concret | tions | | | |
| [|] Histic | Epipedon | | [] High Or | ganic % in Surfac | e Layer | | |
| - | -] Sulfidi | • • | | [] Organio | - | • | | |
| | | ble Aquatic Moist R | eaime | | n Local Hydric So | ils List | | |
| | | cing Conditions | | | n National Hydric | | | |
| - | - | • | oloro | | | | | |
| l | J Gleye | d or Low-Chroma C | STOIO | [] Other (e | explain in remarks |) | | |
| Unit N | lame: | | | Taxonomy: | | | | |
| | age Cla | ISS: | | • | ervations match ma | ap | | |
| Diani | -90 O10 | | | []11010 0000 | adono maton me | ~~ | | |
| Remark | ks | | | | | | | |
| | | | | | | | | |
| Wetla | nd De | etermination | | | | | | |
| [X] H | ydrophy | tic Vegetation Pres | ent | [X] This Da | ta Point is a Wetla | and | | |
| | | oils Present | | | | | | |
| | • | Hydrology Present | | | | | | |
| Remark | | , 3.0.099 1 1000110 | | | | | | |
| n c ilidi | NO. | | | | | | | |

| Project/Site: Concord Resort, The Applicant/Owner: Concord Associative Stephan Stewart [X] Do normal circumstances exist of [X] Have vegetation, soils, or hydrol [X] Is the area a potential problem a | on the site? ogy been disturbed? | | Date: October 21, 2004 County: Sullivan State: New York Community ID: W33 Station ID: Transect 33.3 Plot ID: Upland | |
|--|----------------------------------|--|---|--------------------------------------|
| Vegetation Dominant Species | | Common Name | % Cover | Indicator |
| Herbaceous X Golf Coarse-grass Sphagnum sp. Tree X Acer rubrum Pinus strobus % Species that are OBL, FACW, or Remarks | | Maple,Red Pine,Eastern White | wardin Classification: | FAC FACU |
| Hydrology [] Recorded Data (describe in rer | marks) [] | y Wetland Hydrology Indicator Inundated Saturated in upper 12 inches Water marks Drift lines Sediment deposits Drainage patterns in wetlands | [] Oxidized root of [] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | channels leaves ey data est |
| Soils | | | | |
| Depth Hor. Matrix I (in.) Color 0 0-16 AB 7.5YR 4/1 7 | 7.5YR 5/1 con | ndance Contrast Str | xture, ructure, etc. ndy Loam | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Reg [] Reducing Conditions [] Gleyed or Low-Chroma Cold | | [] Concretions [] High Organic % in St [] Organic Streaking [] Listed on Local Hydri [] Listed on National Hy [] Other (explain in rem Taxonomy: [] Field Observations mate | ic Soils List ydric Soils List arks) | |
| Remarks | | [] Fleid Observations mate | л шар | |
| Filled Area | | | | |
| Wetland Determination | | | | |
| [] Hydrophytic Vegetation Preser [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | nt | [] This Data Point is a \ | Wetland | |

Job Number: 100309 City: Thompson

Wetland Data Point: W33(wetland)

| Project/S | Project/Site: Concord Resort, Thompson, NY | | | | | Date: October 21, 2004 | | |
|---|--|-------------------------------------|------------------|---|-----------------------------------|------------------------|--------------|--|
| Applicant/Owner: Concord Associates, LP | | | | | County: Sullivan | | | |
| Investigator: Ethan Stewart | | | | | State: New York Community ID: W33 | | | |
| [X] Do normal circumstances exist on the site? | | | | | ed? Station ID: Transect 33.3 | | | |
| [X] Have vegetation, soils, or hydrology been disturbed | | | rbed? | | | | | |
| [X] Is the area a potential problem area? | | | Plot ID: Wetland | | | | | |
| Vegeta | tion | | | | | | | |
| Domina | | pecies | | Common Name | | % Cover | Indicator | |
| Herbace | | | | | | | | |
| X | | arex granularis | | Sedge,Meadow | | | FACW+ | |
| | | ster umbellatus | | Aster,Flat-Top Wi | | | FACW | |
| Shrub | Α | thyrium thelyptero | aes | Fern,Silvery Lady | | | FAC | |
| X | 116 | ex verticillata | | Winterberry,Com | mon | | FACW+ | |
| <u>Tree</u> | | on rondomata | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | |
| X | | suga canadensis | | Hemlock, Eastern | | | FACU | |
| | | inus strobus | | Pine,Eastern Whi | te | | FACU | |
| % Specie | | <i>cer rubrum</i> are OBL, FACW, | or EAC (except E | Maple,Red | Cowardi | n Classification: | FAC | |
| % Specie | | ale OBL, FACVV, | oi FAC (except F | AC-). 00 | Cowardi | II Ciassilication. | | |
| Remarks | • | | | | | | | |
| | | | | | | | | |
| Hydrol | ogy | | | Primary Wetland Hydrolo | gy Indicators | Secondary Hydrology | y Indicators | |
| [] Red | corded | Data (describe in | remarks) | [X] Inundated | | [] Oxidized root | channels | |
| | | eam, Lake, or Tide | | [X] Saturated in uppe | r 12 inches | [X] Water-stained | leaves | |
| [|] Aeri | ial Photograph | | [X] Water marks | | [] Local soil surv | ey data | |
|] |] Oth | er (describe in rem | narks) | Drift lines | | [] FAC-Neutral to | est | |
| | | | , | [] Sediment deposits | 3 | Other (explain | in remarks) | |
| Field O | | | | [X] Drainage patterns | | | , | |
| | | of Surface Water(in | | [] | | | | |
| | | o Free Water in Pi | | | | | | |
| | Depth to | o Saturated Soils(i | n.): 2 | | | | | |
| Remark | ks | | | | | | | |
| rtoman | | | | | | | | |
| Soils | | | | | | | | |
| | | NA - Color | Maula / Oad M | ul- | T | | | |
| Depth | Hor. | Matrix | Mottle / 2nd Mo | | Texture | • | | |
| (in.) 2-0 | 0 | Color GLEY2 2.5/5PB | Color | Abundance Contra | st Structui | e, etc. | | |
| 2-0 0-5 | A | 5YR 3/1 | 2.5YR 3/2 | common | Silt | | | |
| 5-14 | В | 5YR 4/1 | 5YR 5/2 | common | Silt | | | |
| J-14 | Ь | 311X 4 /1 | 5YR 6/8 | common | Silt | | | |
| | | | 01100 | OOMMON | | | | |
| • | | ndicators | | | | | | |
| [] | Histoso | ol | | [] Concretic | ons | | | |
| [] | Histic E | Epipedon | | [] High Org | anic % in Surface | e Layer | | |
| [] | Sulfidio | Odor | | [] Organic | Streaking | | | |
| [] | Probab | ole Aquatic Moist R | Regime | [] Listed on | Local Hydric So | ils List | | |
| [X] I | Reduci | ing Conditions | | [] Listed on | National Hydric | Soils List | | |
| [X] | Gleyed | l or Low-Chroma C | Colors | Other (ex | (plain in remarks) | | | |
| | - | | | | . , | | | |
| Unit Na | | | | Taxonomy: | | | | |
| Draina | ge Clas | SS: | | [] Field Obser | vations match ma | ар | | |
| Remarks | 3 | | | | | | | |
| . comand | - | | | | | | | |
| Wetlan | d Do | termination | | | | | | |
| | | | | | | | | |
| | | tic Vegetation Pres | sent | [X] This Data | a Point is a Wetla | nd | | |
| | | ils Present | | | | | | |
| [X] We | tland F | Hydrology Present | | | | | | |
| Remarks | 3 | | | | | | | |
| rtomante | | | | | | | | |

| Project/Site | e: Concord Resort, T | hompson, NY | | Date: O | ctober 21, 2004 | |
|---|---|--|---|--|--|----------------|
| | Owner: Concord Asso | ociates, LP | | • | Sullivan | |
| | r: Ethan Stewart | | | | New York | |
| | mal circumstances exis | | | | nity ID: W51 | |
| | egetation, soils, or hyd irea a potential problem | | | Plot ID: | D: Transect 51.1 Upland | |
| Vegetation | | | | | | |
| Dominant | | | Common Name | | % Cover | Indicator |
| <u>Herbaceo≀</u> ∨ | | doo | Forn Cilvory Lody | | | FAC |
| X <u>Tree</u> | Athyrium thelypteroi | ues | Fern,Silvery Lady | | | FAC |
| X | Acer rubrum | | Maple,Red | | | FAC |
| | Aster umbellatus Pinus strobus | | Aster,Flat-Top White Pine,Eastern White | | | FACW FACU |
| % Species | that are OBL, FACW, of | or FAC (except FAC-): | | Cowardin Cla | assification: | TAGO |
| Remarks | | | | | | |
| Hydrolog | nv | Duine | | | C | . In dia atawa |
| • | rded Data (describe in l | | <i>ry Wetland Hydrology Indic</i> Inundated | aเบาร | Secondary Hydrology Oxidized root [] | |
| | Stream, Lake, or Tide | , . | Saturated in upper 12 inch | nes | [] Water-stained | |
| | Aerial Photograph | • | Water marks | | [] Local soil surv | |
| | Other (describe in rem | • • | Drift lines | | [] FAC-Neutral to | - |
| | | | Sediment deposits | | Other (explain | in remarks) |
| Field Obs | servations: | \. • | Drainage patterns in wetla | ands | | |
| Da. | oth of Surface Water(in | .). U | | | | |
| | oth to Free Water in Pit | (in): >24 | | | | |
| Dep | oth to Free Water in Pit | | | | | |
| De _l De _l | oth to Free Water in Pit oth to Saturated Soils(i | | | | | |
| Dep | | | | | | |
| De _l De _l Remarks | | | | | | |
| Dep Dep Remarks | | | | Texture, | | |
| Dep Dep Remarks Soils Depth H (in.) | oth to Saturated Soils(in Hor. Matrix Color | n.): >24 Mottle / 2nd Mottle | undance Contrast | Structure, et | | |
| Dep Dep Remarks Soils Depth H | oth to Saturated Soils(in | n.): >24 Mottle / 2nd Mottle | undance Contrast | | | |
| Remarks Soils Depth H (in.) 0-6 | Hor. Matrix Color 10R 4/4 | n.): >24 Mottle / 2nd Mottle | undance Contrast | Structure, et | | |
| Remarks Soils Depth H (in.) 0-6 A Hydric So | Hor. Matrix Color A 10R 4/4 | n.): >24 Mottle / 2nd Mottle | | Structure, et | | |
| Remarks Soils Depth H (in.) 0-6 A Hydric So [] His | Hor. Matrix Color A 10R 4/4 bils Indicators | n.): >24 Mottle / 2nd Mottle | [] Concretions | Structure, et Coarse San | d cobbles | |
| Remarks Soils Depth H (in.) 0-6 A Hydric So [] His [] His | Hor. Matrix Color A 10R 4/4 | n.): >24 Mottle / 2nd Mottle | [] Concretions [] High Organic % i | Structure, et Coarse San | d cobbles | |
| Remarks Soils Depth H (in.) 0-6 A Hydric So [] His [] Su | Hor. Matrix Color A 10R 4/4 bils Indicators stosol Stic Epipedon Iffidic Odor | Mottle / 2nd Mottle Color Ab | [] Concretions [] High Organic % i [] Organic Streakin | Structure, et Coarse San in Surface Lay | d cobbles | |
| Remarks Soils Depth H (in.) 0-6 A Hydric So [] His [] Su [] Pro | Hor. Matrix Color A 10R 4/4 bils Indicators stosol stic Epipedon | Mottle / 2nd Mottle Color Ab | [] Concretions [] High Organic % i [] Organic Streakin [] Listed on Local H | Structure, et Coarse San in Surface Lay g Hydric Soils Li | d cobbles ver | |
| Remarks Soils Depth H (in.) 0-6 A Hydric Sc []His []Su []Pro []Re | Hor. Matrix Color A 10R 4/4 bils Indicators stosol stic Epipedon Iffidic Odor obable Aquatic Moist R | Mottle / 2nd Mottle Color Ab | [] Concretions [] High Organic % i [] Organic Streakin | Structure, et Coarse San in Surface Lay g Hydric Soils Li al Hydric Soils | d cobbles ver | |
| Remarks Soils Depth H (in.) 0-6 A Hydric Sc []His []Su []Pro []Re | Hor. Matrix Color | Mottle / 2nd Mottle Color Ab | [] Concretions [] High Organic % i [] Organic Streakin [] Listed on Local H | Structure, et Coarse San in Surface Lay g Hydric Soils Li al Hydric Soils | d cobbles ver | |
| Remarks Soils Depth H (in.) 0-6 A Hydric So [] His [] Su [] Pro [] Re [] Gle | Hor. Matrix Color A 10R 4/4 bils Indicators stosol stic Epipedon Iffidic Odor bable Aquatic Moist Reducing Conditions eyed or Low-Chroma Coe: | Mottle / 2nd Mottle Color Ab | [] Concretions [] High Organic % i [] Organic Streakin [] Listed on Local H [] Listed on Nationa [] Other (explain in | Structure, et Coarse San in Surface Lay g Hydric Soils Li al Hydric Soils remarks) | d cobbles ver | |
| Remarks Soils Depth H (in.) 0-6 A Hydric So [] His [] Su [] Pro [] Re [] Glo Unit Nam | Hor. Matrix Color A 10R 4/4 bils Indicators stosol stic Epipedon Iffidic Odor bable Aquatic Moist Reducing Conditions eyed or Low-Chroma Coe: | Mottle / 2nd Mottle Color Ab | [] Concretions [] High Organic % i [] Organic Streakin [] Listed on Local H [] Listed on Nationa [] Other (explain in | Structure, et Coarse San in Surface Lay g Hydric Soils Li al Hydric Soils remarks) | d cobbles ver | |
| Remarks Soils Depth H (in.) 0-6 A Hydric So [] His [] Su [] Pr [] Re [] Glo Unit Nam Drainage Remarks | Hor. Matrix Color 10R 4/4 bils Indicators stosol stic Epipedon lifidic Odor bable Aquatic Moist Reducing Conditions eyed or Low-Chroma Ce: Class: | Mottle / 2nd Mottle Color Ab | [] Concretions [] High Organic % i [] Organic Streakin [] Listed on Local H [] Listed on Nationa [] Other (explain in | Structure, et Coarse San in Surface Lay g Hydric Soils Li al Hydric Soils remarks) | d cobbles ver | |
| Remarks Soils Depth H (in.) 0-6 A Hydric So [] His [] Su [] Pro [] Re [] Glo Unit Nam Drainage Remarks Wetland | Hor. Matrix Color A 10R 4/4 bils Indicators stosol stic Epipedon Iffidic Odor obable Aquatic Moist Reducing Conditions eyed or Low-Chroma Color e: Class: Determination | Mottle / 2nd Mottle Color Ab egime colors | [] Concretions [] High Organic % i [] Organic Streakin [] Listed on Local H [] Listed on Nationa [] Other (explain in Taxonomy: [] Field Observations i | Structure, et Coarse San in Surface Lay g Hydric Soils Li al Hydric Soils remarks) | d cobbles ver | |
| Remarks Soils Depth H (in.) 0-6 A Hydric So []His []His []Su []Pro []Re []Glo Unit Nam Drainage Remarks Wetland []Hydro | Hor. Matrix Color A 10R 4/4 bils Indicators stosol stic Epipedon Iffidic Odor obable Aquatic Moist Reducing Conditions eyed or Low-Chroma Color e: Class: Determination ophytic Vegetation Pres | Mottle / 2nd Mottle Color Ab egime colors | [] Concretions [] High Organic % i [] Organic Streakin [] Listed on Local H [] Listed on Nationa [] Other (explain in | Structure, et Coarse San in Surface Lay g Hydric Soils Li al Hydric Soils remarks) | d cobbles ver | |
| Remarks Soils Depth H (in.) 0-6 A Hydric So []His []His []Su []Pro []Re []Glo Unit Nam Drainage Remarks Wetland []Hydro []Hydro []Hydro []Hydro []Hydro []Hydro []Hydro | Hor. Matrix Color A 10R 4/4 bils Indicators stosol stic Epipedon Iffidic Odor obable Aquatic Moist Reducing Conditions eyed or Low-Chroma Color e: Class: Determination ophytic Vegetation Prese c Soils Present | Mottle / 2nd Mottle Color Ab egime colors | [] Concretions [] High Organic % i [] Organic Streakin [] Listed on Local H [] Listed on Nationa [] Other (explain in Taxonomy: [] Field Observations i | Structure, et Coarse San in Surface Lay g Hydric Soils Li al Hydric Soils remarks) | d cobbles ver | |
| Remarks Soils Depth H (in.) 0-6 A Hydric So []His []His []Su []Pro []Re []Glo Unit Nam Drainage Remarks Wetland []Hydro []Hydro []Hydro []Hydro []Hydro []Hydro []Hydro | Hor. Matrix Color A 10R 4/4 bils Indicators stosol stic Epipedon Iffidic Odor obable Aquatic Moist Reducing Conditions eyed or Low-Chroma Color e: Class: Determination ophytic Vegetation Pres | Mottle / 2nd Mottle Color Ab egime colors | [] Concretions [] High Organic % i [] Organic Streakin [] Listed on Local H [] Listed on Nationa [] Other (explain in Taxonomy: [] Field Observations i | Structure, et Coarse San in Surface Lay g Hydric Soils Li al Hydric Soils remarks) | d cobbles ver | |

Job Number: 100309 City: Thompson

Wetland Data Point: W51(wetland)

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been disturbe [X] Is the area a potential problem area? | ed? | Date: October 21, 2004 County: Sullivan State: New York Community ID: W51 Station ID: Transect 51.1 (n | orth) |
|--|---|--|------------------------------------|
| Vegetation Dominant Species | Common Name | % Cover | Indicator |
| Herbaceous | Common Name | // Cover | iliuicatoi |
| Ilex verticillata Solidago austrina Euonymus americanus Sphagnum sp. Thelypteris noveboracensis Aster umbellatus | Winterberry,Common Golden-Rod Strawberry-Bush,American Fern,New York Aster,Flat-Top White | | FACW+ OBL FAC FAC FACW |
| Tree X Acer rubrum Tsuga canadensis Pinus strobus Fagus grandifolia | Maple,Red Hemlock,Eastern Pine,Eastern White Beech | | FAC FACU FACU FAC+ |
| % Species that are OBL, FACW, or FAC (except FAC Remarks | i-): 100 Cov | wardin Classification: | |
| Hydrology Prin | mary Wetland Hydrology Indicator | s Secondary Hydrology | / Indicators |
| [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) | [X] Inundated [X] Saturated in upper 12 inches [X] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | [] Oxidized root of [X] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | leaves ey data est |
| Soils | | | |
| Depth Hor. Matrix Mottle / 2nd Mottle | e Te | xture, | |
| <i>\ \ \ \ \ \ \ \ \ \ \ \ \ </i> | | ructure, etc. | |
| 3-0 O GLEY2 2.5/5PB | | ecomposed leaves | |
| 0-4 A 7.5YR 3/1 7.5YR 4/1 | few Sil | | |
| 4-12 B 7.5YR 4/2 7.5YR 5/6 Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [X] Reducing Conditions [X] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: Remarks Wetland Determination | [] Concretions [] High Organic % in St [] Organic Streaking [] Listed on Local Hydri [] Listed on National Hy [] Other (explain in rem Taxonomy: [] Field Observations mate | ic Soils List ydric Soils List arks) | |
| [X] Hydrophytic Vegetation Present [X] Hydric Soils Present [X] Wetland Hydrology Present Remarks | [X] This Data Point is a \ | Wetland | |

Job Number: 100309 **Data Form** City: Thompson Routine Wetland Determination

Wetland Data Point: W51(wetland)

| Applicant/ Investigate [X] Do not [] Have [] Is the | te: Concord Resort, T Owner: Concord Ass or: Ethan Stewart rmal circumstances exist vegetation, soils, or hyd area a potential probler | ociates, LP st on the site? rology been dist | urbed? | Co Sta Co Sta | te: October 21, 2004 runty: Sullivan ate: New York rmmunity ID: W51 ation ID: Transect 51.2 (sort ID: Wetland | south) |
|---|--|--|---|--|--|--------------------------------------|
| Vegetat | | | O N | | 0/ 0 | I IV |
| Dominant Herbaced | | | Common Name | | % Cover | Indicator |
| X | Aster umbellatus Solidago austrina Euonymus america Sphagnum sp. Thelypteris novebol | | Aster,Flat-Top Whi Golden-Rod Strawberry-Bush,A Fern,New York | | | FACW OBL FAC |
| Shrub | Thelyptens novebol | acensis | rem,new rork | | | FAC |
| X | llex verticillata | | Winterberry,Comm | ion | | FACW+ |
| <u>Tree</u> | A = = = = = t == === | | Marila Bari | | | FA0 |
| X | Acer rubrum Tsuga canadensis Pinus strobus Fagus grandifolia | | Maple,Red Hemlock,Eastern Pine,Eastern White Beech | e | | FAC FACU FACU FAC+ |
| % Species | Fagus grandifolia s that are OBL, FACW, | or FAC (except | | Coward | din Classification: | 1 AUT |
| Remarks | | - (| , | 22 | | |
| | | | | | | |
| [[[Field Ob De | orded Data (describe in] Stream, Lake, or Tide] Aerial Photograph] Other (describe in remoservations: epth of Surface Water (in Pitepth to Saturated Soils(in port of Surface Soils(in port of Saturated Soils(| Gage arks) .): 0 .(in.): 2 | Primary Wetland Hydrolog [X] Inundated [X] Saturated in upper [X] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns i | 12 inches | Secondary Hydrology [] Oxidized root [X] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | channels leaves ey data est |
| Soils Depth | Hor. Matrix | Mottle / 2nd N | 1ottle | Textur | e. | |
| (in.) | Color | Color | Abundance Contras | _ | ire, etc. | |
| _ | O GLEY2 2.5/5PB | | | _ | | |
| | A 7.5YR 4/2 | 7.5YR 4/4 | common | Silt Silt | | |
| Hydric S []H []H []S []P [X]R | | | [] Organic S [] Listed on [] Listed on | ns inic % in Surfac treaking Local Hydric Sc National Hydric olain in remarks | oils List : Soils List s) | |
| Remarks | | | | | | |
| | | | | | | |
| Wetland | l Determination | | | | | |
| [X] Hydr | ophytic Vegetation Presic Soils Present and Hydrology Present | sent | [X] This Data | Point is a Wetl | and | |

| Applicant/Ow Investigator: [X] Do norma [] Have veg [X] Is the are | a a potential problen | st on the site? rology been disturbed? | | Cor Sta Cor Sta | te: October 21, 2004 unty: Sullivan tte: New York mmunity ID: W50 ttion ID: Transect 50.1 tt ID: Upland | |
|--|---|--|---|---|---|--------------------------------------|
| Vegetation Dominant | า Species | | Common Name | | % Cover | Indicator |
| Herbaceous | | | | | 7, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, | |
| Tree X % Species th Remarks | Sphagnum sp. Pinus strobus Thelypteris novebor Fagus grandifolia Acer rubrum at are OBL, FACW, | acensis or FAC (except FAC-): | Pine,Eastern White Fern,New York Beech Maple,Red | Coward | in Classification: | FACU FAC FAC+ FAC |
| Hydrology | , | Dime | | -l' 1 | 0 | |
| [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 | | | Primary Wetland Hydrology Indicators [] Inundated | | | channels leaves ey data est |
| Depth Remarks | n to Saturated Soils(i | n.): >24 | | | | |
| | | | | | 2 | |
| (in.) 0-16 AB 16-18 A | Color | | undance Contrast | Texture Structu Silt Loa decom | re, etc. | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors | | | [] Concretions [] High Organic % in Surface Layer [] Organic Streaking [] Listed on Local Hydric Soils List [] Listed on National Hydric Soils List [] Other (explain in remarks) | | | |
| Unit Name: Drainage Class: | | | Taxonomy: [] Field Observations match map | | | |
| Remarks | | | | | | |
| Wetland D | etermination | | | | | |
| [] Hydroph [] Hydric S | nytic Vegetation Pres Soils Present I Hydrology Present | eent | [] This Data Poin | it is a Wetla | and | |

| Applicant/Ov Investigator: [X] Do norm [] Have veg | Concord Resort, Thompson, NY vner: Concord Associates, LP Ethan Stewart al circumstances exist on the site? getation, soils, or hydrology been disea a potential problem area? | turbed? | Date: December 02, 2004 County: Sullivan State: New York Community ID: W71 Station ID: Transect 71.1 Plot ID: Upland | |
|---|--|---|--|---------------|
| Vegetatio Dominant | N Species | Common Name | % Cover | Indicator |
| <u>Herbaceous</u> | <u> </u> | Common Name | 76 COVE | muicator |
| <u>Shrub</u> | Sphagnum sp. | | | |
| X <u>Tree</u> | Rhododendron maximum | Rhododendron,Rosebay | | FAC |
| X | Tsuga canadensis | Hemlock,Eastern | II. OI. 10. 11 | FACU |
| % Species tr Remarks | nat are OBL, FACW, or FAC (except | FAC-): 50 Co | owardin Classification: | |
| Hydrology | y | Primary Wetland Hydrology Indicato | ors Secondary Hydrolog | v Indicators |
| ٠ . | ed Data (describe in remarks) | [] Inundated | [] Oxidized root | • |
| | stream, Lake, or Tide Gage | [] Saturated in upper 12 inches | | |
| | erial Photograph | [] Water marks | [] Local soil sur | • |
| | Other (describe in remarks) | [] Drift lines [] Sediment deposits | [] FAC-Neutral t [] Other (explair | |
| Field Obse | | [] Drainage patterns in wetland | , , | r iir remano) |
| • | h of Surface Water(in.): 0 | | | |
| | h to Free Water in Pit(in.): >24 h to Saturated Soils(in.): >24 | | | |
| Remarks | () | | | |
| | | | | |
| Soils | | | | |
| | or. Matrix Mottle / 2nd N Color Color | - | exture, | |
| (in.) 2-0 O | 2.5YR 2.5/1 | | tructure, etc. decomposed leaves | |
| 0-10 A | 2.5YR 5/3 | | ilt Loam | |
| Hydric Soil | s Indicators | | | |
| [] Histo | osol | [] Concretions | | |
| | c Epipedon | [] High Organic % in S | Surface Layer | |
| | dic Odor | [] Organic Streaking | lria Caila Liat | |
| | pable Aquatic Moist Regime ucing Conditions | [] Listed on Local Hyd [] Listed on National F | | |
| | ved or Low-Chroma Colors | [] Other (explain in re | - | |
| Unit Name: | | Taxonomy: | , | |
| Drainage C | | [] Field Observations ma | tch map | |
| Remarks | | • • | · | |
| Wetland [| Determination | | | |
| | hytic Vegetation Present | [] This Data Point is a | Wetland | |
| | Soils Present | [] The Bala Foliation | | |
| | d Hydrology Present | | | |
| Remarks | | | | |
| Upland | | | | |

Job Number: 100309 City: Thompson

Wetland Data Point: W71(wetland)

| Applica Investi [X] Do | ant/Owr gator: normal | ner: Concord A Ethan Stewart circumstances | rt, Thompson, NY Associates, LP exist on the site? hydrology been dis | turbed? | County: State: I Commui | ecember 02, 2004 Sullivan New York nity ID: W71 D: Transect 71.1 |
|------------------------------|-----------------------------|--|--|---|-------------------------------|--|
| [X] Is t | he area | a potential pro | | | Plot ID: | Wetland |
| Veget | | Species | | Common Name | | % Cover Indicator |
| <u>Herba</u> | ceous | • | | Common Nume | | 75 GOVEL IIIGIGACOL |
| Shrub | | Sphagnum sp. | | | | |
| X | | Rhododendron | maximum | Rhododendron,F | Rosebay | FAC |
| <u>Tree</u> X | | Tsuga canaden | cic | Hemlock, Easterr | | FACU |
| ^ | | rsuga canaden Betula alba | 515 | Birch, White | 1 | FAC+ |
| | | Fagus grandifol | ia | Beech | | FAC+ |
| % Spe | | P <i>inus strobus</i> It are OBL. FAC | CW, or FAC (except | Pine,Eastern Wh | Cowardin Cla | FACUassification: |
| Remar | | , | (| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| | | | | | | |
| Hydro | ology | | | Primary Wetland Hydrol | ogy Indicators | Secondary Hydrology Indicators |
| []R | | d Data (describ | | [X] Inundated | | [] Oxidized root channels |
| | | eam, Lake, or | • | [X] Saturated in upper | er 12 inches | [X] Water-stained leaves |
| | | rial Photograph | | [X] Water marks | | [] Local soil survey data [] FAC-Neutral test |
| | [] Ou | ner (describe in | remarks) | [] Drift lines [] Sediment deposit | ts | Other (explain in remarks) |
| Field | Observ | | | Drainage pattern | | [] Other (explain in remarks) |
| | | of Surface Wat | | [] = amage pattern | | |
| | | to Free Water i | | | | |
| | Deptn | to Saturated So | Diis(in.): U | | | |
| Rema | arks | | | | | |
| Soils | | | | | | |
| Deptl | h Hor | Matrix | Mottle / 2nd N | /ottle | Texture, | |
| (in.) | 1 1101. | Color | Color | Abundance Contr | _ · | ic. |
| 0-14 | Α | 2.5YR 4/3 | 2.5YR 5/6 | common | Loamy Sand | |
| | | | 2.5YR 5/2 | common | | |
| Hydr | ic Soils | Indicators | | | | |
| [|] Histos | sol | | [] Concret | ions | |
| _ | - | Epipedon | | | ganic % in Surface Lay | /er |
| • |] Sulfid | | | [] Organic | • | |
| - | • | ble Aquatic Mo | • | | n Local Hydric Soils Lis | |
| - | - | cing Conditions | | | n National Hydric Soils | List |
| ĮΧ | .] Gleye | d or Low-Chror | na Colors | [] Other (e | explain in remarks) | |
| | Name: | | | Taxonomy: | | |
| Drain | age Cla | ass: | | [] Field Obse | rvations match map | |
| Remar | ks | | | | | |
| Watla | nd D | eterminatio | n . | | | |
| | | | | (V) This Da | to Doint in a Matles - | |
| | | ytic Vegetation oils Present | rieseni | [X] This Da | ta Point is a Wetland | |
| | - | Hydrology Pres | sent | | | |
| Remar | | , | | | | |
| | | | | | | |

| Applicant/On Investigator [X] Do norm | ea a potential proble | ist on the site? drology been disturbed | 1? | | Cour State Com Stati | e: December 02, 2004 nty: Sullivan e: New York nmunity ID: W72 ion ID: Transect 72.1 ID: Upland | |
|--|---|--|---|--|--------------------------------------|---|--|
| Dominant | Species | | Commo | n Name | | % Cover | Indicator |
| Tree X % Species t Remarks | Sphagnum sp. Lycopodium dendr Pinus strobus Acer rubrum Fraxinus american | | Pine,Eas Maple,Re Ash,Whit | | Cowardir | n Classification: | FACU FACU FAC FACU |
| Hydrolog | V | Prin | aan, Watlan | d Hydrology Ind | dicators | Secondary Hydrolog | ny Indicators |
| [] Record [] \$ [] / [] (Field Obse Dep Dep | ded Data (describe ir Stream, Lake, or Tide Aerial Photograph Other (describe in re | remarks) [c Gage [marks) [n.): 0 [it(in.): >24 |] Inundated] Saturated] Water ma] Drift lines] Sediment | d I in upper 12 in arks | ches | [] Oxidized root [] Water-stained [] Local soil sun [] FAC-Neutral t [] Other (explain | channels d leaves vey data test |
| Soils | | | | | | | |
| ! | or. Matrix | Mottle / 2nd Mottle | hundonoo | Contract | Texture, | | |
| (in.) 3-0 O | Color 5YR 2.5/1 | Color A | bundance | Contrast | Structure decomp | e, etc. oosed leaves | |
| 0-10 A | 5YR 4/6 | | | | Silt Loar | | |
| [] Hist [] Hist [] Sult [] Pro [] Red | Is Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist ducing Conditions yed or Low-Chroma | • | [] [] [] | Concretions High Organic % Organic Streak Listed on Local Listed on Natio Other (explain | ing I Hydric Soil nal Hydric S | s List Soils List | |
| Unit Name Drainage (| | | Taxono | omy: ld Observations | s match ma _l | р | |
| Remarks | | | | | | | |
| Wetland I | Determination | | | | | | |
| [] Hydrop [] Hydric | ohytic Vegetation Pre Soils Present ad Hydrology Presen | | [] | This Data Point | t is a Wetlar | nd | |

Job Number: 100309 City: Thompson

Wetland Data Point: W72(wetland)

| Applicar Investiga [X] Do n [] Have [X] Is the | nt/Own ator: normal e vege e area | er: Concord As Ethan Stewart circumstances e | xist on the site? ydrology been dist | urbed? | Cour State Com Stati | e: December 02, 2004 http: Sullivan e: New York munity ID: W72 on ID: Transect 72.1 ID: Wetland | |
|---|---|---|---|---|---|--|---------------------------------------|
| Vegeta | | `maaiaa | | Common Name | | % Cavar | Indicator |
| Domina Herbace | | Species | | Common Name | 9 | % Cover | Indicator |
| Shrub X | S | Sphagnum sp. Aster umbellatus Carex granularis Iex verticillata | | Aster,Flat-Top V Sedge,Meadow Winterberry,Con | | | FACW FACW+ |
| T | ١ | /accinium amoer | num | Blueberry, Highb | ush | | FACW |
| <u>Tree</u> X | F | Pinus strobus | | Pine,Eastern Wh | nite | | FACU |
| | | | /, or FAC (except | | | Classification: | |
| Remarks | s | | | | | | |
| [[[Field C [| cordec] Str] Ael] Oth Dbserv Depth Depth | d Data (describe is eam, Lake, or Tic rial Photograph ner (describe in re ations: of Surface Water to Free Water in to Saturated Soils | de Gage emarks) (in.): 1 Pit(in.): 1 | Primary Wetland Hydro [X] Inundated [X] Saturated in upp [X] Water marks [] Drift lines [] Sediment deposi [] Drainage pattern | er 12 inches | Secondary Hydrolog [] Oxidized root [X] Water-stained [] Local soil surv [] FAC-Neutral t [] Other (explain | channels leaves rey data est |
| Soils | | | | | | | |
| Depth | Hor. | Matrix | Mottle / 2nd M | | Texture, | | |
| (in.) 6-0 | 0 | Color 2.5YR 2.5/1 | Color | Abundance Conti | | e, etc. osed leaves | |
| 0-10 | A | 2.5YR 4/4 | 2.5YR 5/6 2.5YR 4/1 | common few | Silt Loan | | |
| [] [] [X] [X] | Histos Histic Sulfidi Proba Reduc | Indicators ol Epipedon c Odor ble Aquatic Moist cing Conditions d or Low-Chroma | - | [] Organio [] Listed o [] Listed o | tions rganic % in Surface c Streaking on Local Hydric Soil on National Hydric S explain in remarks) | s List | |
| Unit Na Draina | | ss: | | Taxonomy: [] Field Obse | ervations match map | 0 | |
| Remarks | S | | | | | | |
| Wetlan | d De | etermination | <u> </u> | | | | |
| [X] Hyd [X] Hyd | drophy dric So etland | rtic Vegetation Pr oils Present Hydrology Presei | esent | [X] This Da | ata Point is a Wetlar | nd | |

| Applicant/Ov Investigator: [X] Do norm [] Have ve [X] Is the are | Concord Resort, Thompson, NY wner: Concord Associates, LP Ethan Stewart all circumstances exist on the site? getation, soils, or hydrology been disea a potential problem area? | | Date: December 02, 2004 County: Sullivan State: New York Community ID: W70 Station ID: Transect 70.1 Plot ID: Upland | |
|--|---|--|--|---|
| Vegetatio Dominant | n Species | Common Name | % Cover | Indicator |
| Herbaceous | • | | ,,, G | |
| <u>Tree</u> X | Tsuga canadensis Fagus grandifolia | Hemlock,Eastern Beech | | FACU FAC+ |
| % Species to Remarks | hat are OBL, FACW, or FAC (except | | cowardin Classification: | 1701 |
| [] { | ded Data (describe in remarks) Stream, Lake, or Tide Gage Aerial Photograph Other (describe in remarks) | Primary Wetland Hydrology Indicate [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetland | [] Oxidized root s [] Water-stained [] Local soil sun [] FAC-Neutral t [] Other (explain | channels I leaves vey data est |
| Soils | | | | |
| Depth Ho | or. Matrix Mottle / 2nd I | | Texture, | |
| (in.) 3-0 O | Color Color 2.5YR 2.5/1 | | Structure, etc. decomposed leaves | |
| 0-12 A | 7.5YR 4/4 | L | _oamy Sand | |
| [] Hist [] Hist [] Sulf [] Prol [] Rec | Is Indicators rosol ic Epipedon idic Odor bable Aquatic Moist Regime ducing Conditions yed or Low-Chroma Colors | [] Concretions [] High Organic % in [] Organic Streaking [] Listed on Local Hyo [] Listed on National [] Other (explain in re | dric Soils List Hydric Soils List | |
| Unit Name Drainage (| | Taxonomy: [] Field Observations ma | atch map | |
| Remarks | | | | |
| \Motland | Determination | | | |

Job Number: 100309 City: Thompson

Wetland Data Point: W70(wetland)

| Project/Site: Concord Resort, Thompson, Not Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been diversely like the area a potential problem area? Vegetation Dominant Species Herbaceous X Aster umbellatus Sphagnum sp. | | Date: December 02, 2004 County: Sullivan State: New York Community ID: W70 Station ID: Transect 70.1 Plot ID: Wetland **Cover** Indicator FACW |
|--|--|--|
| <u>Tree</u> X Tsuga canadensis | Hemlock,Eastern | FACU |
| Fagus grandifolia % Species that are OBL, FACW, or FAC (exception Remarks) | Beech of FAC-): 50 Cov | FAC+ wardin Classification: |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 2 Depth to Free Water in Pit(in.): 1 Depth to Saturated Soils(in.): 0 Remarks | Primary Wetland Hydrology Indicator [X] Inundated [X] Saturated in upper 12 inches [X] Water marks [X] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | Secondary Hydrology Indicators [] Oxidized root channels [X] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils Death Has Matrix Mettle / 2nd | Mottle | artiura. |
| Depth Hor. Matrix Mottle / 2nd (in.) Color Color | | xture, ructure, etc. |
| 3-0 O 7.5YR 2.5/1 | | ecomposed leaves |
| 0-7 A 7.5YR 6/1 | Sil | t Loam |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [X] Probable Aquatic Moist Regime [X] Reducing Conditions [X] Gleyed or Low-Chroma Colors | [] Concretions [] High Organic % in Su [] Organic Streaking [] Listed on Local Hydri [] Listed on National Hy [] Other (explain in rem | c Soils List vdric Soils List |
| Unit Name: Drainage Class: | Taxonomy: [] Field Observations matc | ch map |
| Remarks | | |
| Wetland Determination | | |
| [X] Hydrophytic Vegetation Present[X] Hydric Soils Present[X] Wetland Hydrology PresentRemarks | [X] This Data Point is a \ | Vetland |

| Project/Site: Concord Resort, Thompson, Napplicant/Owner: Concord Associates, LP Investigator: [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been of the site? [] Is the area a potential problem area? | C S C C disturbed? S | tate: January 19, 2005 county: Sullivan ctate: New York community ID: ctation ID: |
|---|---|--|
| Vegetation Dominant Species | Common Name | % Cover Indicator |
| X % Species that are OBL, FACW, or FAC (exce Remarks | opt FAC-): Cowar | rdin Classification: |
| Hydrology [] Recorded Data (describe in remarks) | Primary Wetland Hydrology Indicators [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | Secondary Hydrology Indicators [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| Depth Hor. Matrix Mottle / 2nd Color Color | | ire, ture, etc. |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: | [] Concretions [] High Organic % in Surfa [] Organic Streaking [] Listed on Local Hydric S [] Listed on National Hydric [] Other (explain in remark | Soils List ic Soils List |
| Drainage Class: Remarks | [] Field Observations match r | map |
| Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks | [] This Data Point is a We | tland |

City: **Thompson**Wetland Data Point: **W50(wetland)**

Job Number: 100309

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been disturbed as a potential problem area? | d? | Date: October 21, 2004 County: Sullivan State: New York Community ID: W50 Station ID: Transect 50.1 Plot ID: Wetland | |
|---|---|--|---|
| Vegetation Dominant Species | Common Name | % Cover | Indicator |
| Herbaceous | Common Name | // COVE | iliulcator |
| X Aster umbellatus Euonymus americanus Athyrium thelypteroides Shrub | Aster,Flat-Top White Strawberry-Bush,American Fern,Silvery Lady | | FACW FAC FAC |
| X Ilex verticillata Viburnum lentago | Winterberry,Common Nannyberry | | FACW+ FAC |
| Tree X Acer rubrum Fagus grandifolia | Maple,Red Beech | | FAC FAC+ |
| % Species that are OBL, FACW, or FAC (except FAC- Remarks |): 100 Co | wardin Classification: | |
| [] Recorded Data (describe in remarks) [| nary Wetland Hydrology Indicator I Inundated Saturated in upper 12 inches Water marks Drift lines Sediment deposits Drainage patterns in wetlands | [] Oxidized root [] Water-stained [] Local soil sun [] FAC-Neutral t [] Other (explain | channels I leaves vey data est |
| Soils | | | |
| Depth Hor. Matrix Mottle / 2nd Mottle (in.) Color Color | | exture, ructure, etc. | |
| | | and | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors | [] Concretions [] High Organic % in S [] Organic Streaking [] Listed on Local Hydr [] Listed on National H [] Other (explain in rem | ric Soils List ydric Soils List | |
| Unit Name: Drainage Class: | Taxonomy: [] Field Observations mate | ch map | |
| Remarks | | | |
| Wetland Determination | | | |
| [X] Hydrophytic Vegetation Present[X] Hydric Soils Present[X] Wetland Hydrology PresentRemarks | [X] This Data Point is a | Wetland | |

| Project/Site: Concord R Applicant/Owner: Conco Investigator: Ethan Stev [X] Do normal circumstan [] Have vegetation, soils [X] Is the area a potential | rd Associates, LP vart ces exist on the site? , or hydrology been disturbe | d? | Date: October 21, 2004 County: Sullivan State: New York Community ID: W48 Station ID: Transect 48.1 Plot ID: Upland | |
|---|---|--|---|---------------------------------------|
| Vegetation | | | | |
| Dominant Species | | Common Name | % Cover | Indicator |
| <u>Herbaceous</u> Athyrium the Sphagnum s | <i>3</i> . | Fern,Silvery Lady | | FAC |
| Thelypteris i <u>Shrub</u> | noveboracensis | Fern,New York | | FAC |
| Vaccinium n Tree | narianum | Blueberry,Highbush | | FAC |
| X Fagus grand X Tsuga cana Pinus strobu Betula alleg | densis Is | Beech Hemlock,Eastern Pine,Eastern White Birch,Yellow -): 50 C | owardin Classification: | FAC+ FACU FACU FAC |
| Remarks | - ((| , | | |
| Hydrology [] Recorded Data (des | oribe in remarks) or Tide Gage aph e in remarks) Water(in.): 0 er in Pit(in.): >24 | mary Wetland Hydrology Indicate [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetland | [] Oxidized root s [] Water-stained [] Local soil sun [] FAC-Neutral t [] Other (explain | channels leaves rey data est |
| Soils | | | | |
| Depth Hor. Matrix (in.) Color 1-0 O 5YR 3/1 0-3 A 5YR 4/3 3-12 B 5YR 4/4 | Mottle / 2nd Mottle Color 5YR 3/3 5YR 4/6 | Abundance Contrast S few S | Fexture, Structure, etc. decomposed leaves Silt | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic [] Reducing Conditi [] Gleyed or Low-Cl | Moist Regime ons | [] Concretions [] High Organic % in S [] Organic Streaking [] Listed on Local Hyo [] Listed on National I [] Other (explain in re | Surface Layer dric Soils List Hydric Soils List | |
| Unit Name: | | Taxonomy: | | |
| Drainage Class: | | [] Field Observations ma | atch map | |
| Remarks | | | | |
| Wetland Determina [] Hydrophytic Vegetat [] Hydric Soils Present [] Wetland Hydrology Remarks Upland | ion Present | [] This Data Point is a | a Wetland | _ |

Job Number: 100309 City: Thompson

Wetland Data Point: W48(wetland)

| Applicant/O Investigator [X] Do norm [] Have ve [X] Is the ar | ea a potential prob | exist on the site? ydrology been distu | rbed? | Cour State Com Stati | e: October 21, 2004 nty: Sullivan e: New York munity ID: W48 ion ID: Transect 48.1 ID: Wetland | |
|---|--|---|---|--|---|------------------------------|
| Vegetation Dominant | ON Species | | Common N | ame | % Cover | Indicator |
| Herbaceou | | | 00 | umo | 70 00101 | maioatoi |
| X <u>Shrub</u> | Sphagnum sp. Lycopodium obso | curum | Clubmoss,T | ree | | FACU |
| X | Rhododendron m | aximum | Rhododend | ron,Rosebay | | FAC |
| <u>Tree</u> X | Tsuga canadensi Fagus grandifolia | | Hemlock,Ea Beech | stern | | FACU FAC+ |
| % Species t Remarks | hat are OBL, FACV | V, or FAC (except F | AC-): 33 | Cowardir | n Classification: | |
| Hydrolog | ıy | | Primarv Wetland H | ydrology Indicators | Secondary Hydrolog | av Indicators |
| []; []; Field Obse Dep Dep | ded Data (describe Stream, Lake, or Tickerial Photograph Other (describe in rervations: th of Surface Water in to Saturated Soil | de Gage emarks) r(in.): 0 Pit(in.): 6 | [X] Water marks [] Drift lines [] Sediment de | | [] Oxidized root [X] Water-stainer [] Local soil sur [] FAC-Neutral [] Other (explain | d leaves vey data test |
| Soils | | | | | | |
| <u>(in.)</u> | or. Matrix Color | Mottle / 2nd Mo Color | | Texture, Structure | | |
| 4-0 O 0-12 A | | 5YR 5/8 5YR 3/1 | common few | Sandy L | oam | |
| [] His [] His [] Sul [X] Pro [X] Red | ils Indicators tosol tic Epipedon fidic Odor bable Aquatic Mois ducing Conditions yed or Low-Chroma | - | [X] Hig [] Org [] List [] List | ncretions h Organic % in Surface ganic Streaking ted on Local Hydric Soil ted on National Hydric S ner (explain in remarks) | s List | |
| Unit Name Drainage (| | | Taxonomy | y: Observations match ma _l | р | |
| Remarks | | | | | | |
| Wetland | Determinatio | n | | | | |
| [X] Hydro _l [X] Hydric | ohytic Vegetation P Soils Present nd Hydrology Prese | resent | [X] Thi | s Data Point is a Wetlar | nd | |

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been die [X] Is the area a potential problem area? | sturbed? | Date: October 21, 2004 County: Sullivan State: New York Community ID: W47 Station ID: Transect 47.1 Plot ID: Upland |
|--|--|--|
| Vegetation Dominant Species | Common Name | % Cover Indicator |
| Herbaceous Aster vimineus | Aster,Small White | FAC |
| Tree X Acer rubrum X Fagus grandifolia % Species that are OBL, FACW, or FAC (excep | Maple,Red Beech | FAC FAC+ vardin Classification: |
| Remarks | 117AC-). 100 COW | arum Ciassincation. |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicators [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | Secondary Hydrology Indicators [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| Depth (in.) Hor. Matrix Color Mottle / 2nd Color 0-3 A 5YR 3/3 3-8 B 5YR 5/3 7.5YR 5/3 | | ture, acture, etc. |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: | [] Concretions [] High Organic % in Sur [] Organic Streaking [] Listed on Local Hydric [] Listed on National Hydric [] Other (explain in remains | Soils List dric Soils List arks) |
| Remarks | [] Tiola about validite mater | ····ap |
| rock at 8" Wetland Determination | | |
| [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a W | /etland |

Job Number: **100309** City: **Thompson**

Wetland Data Point: W47(wetland)

| | | concora Resor | t, Thompson, NY | | Date | : October 21, 2004 | |
|---|--|--|--|---|--|-------------------------------|--------------|
| Investig | nt/Own | er: Concord A | Associates, LP | | Cour | nty: Sullivan | |
| | gator: I | Ethan Stewart | | | State | : New York | |
| [X] Do | normal | circumstances (| exist on the site? | | Com | munity ID: W47 | |
| [] Hav | ve vege | tation, soils, or l | hydrology been distu | rbed? | Station | on ID: Transect 47.1 | |
| [X] Is th | ne area | a potential prob | olem area? | | Plot I | ID: Wetland | |
| Vegeta | ation | | | | | | |
| Domina | | Species | | Common N | ame | % Cover | Indicator |
| Herbac | | | | | | | |
| Х | | Aster umbellatus | | Aster,Flat-To | | | FACW |
| | | Diodia virginiana Fragaria virginiai | | Button-Wee Strawberry,\ | | | FACW FACU |
| | | Tugana virginiai Typha angustifol | | Cattail, Narro | | | OBL |
| <u>Shrub</u> | | <i></i> 0 | | | | | |
| T | I. | lex verticillata | | Winterberry, | Common | | FACW+ |
| <u>Tree</u> × | F | - agus grandifolia | a | Beech | | | FAC+ |
| ^ | | Pinus strobus | 4 | Pine,Easteri | n White | | FACU |
| % Spec | cies tha | t are OBL, FAC | W, or FAC (except F | AC-): 100 | Cowardin | Classification: | |
| Remark | KS | | | | | | |
| | | | | | | | |
| Hydro | logy | | | Primary Wetland Hy | drology Indicators | Secondary Hydrology | v Indicators |
| []Re | ecordec | d Data (describe | | [X] Inundated | | [X] Oxidized root | |
| | | eam, Lake, or T | , | [X] Saturated in | upper 12 inches | [X] Water-stained | leaves |
| | | rial Photograph | · · | [X] Water marks | • • | [] Local soil surv | ey data |
| | [] Oth | ner (describe in | remarks) | Drift lines | | [] FAC-Neutral to | est |
| | | , | , | [] Sediment de | posits | Other (explain | in remarks) |
| | Observa | | /: \ | [] Drainage par | terns in wetlands | | |
| | | of Surface Water | | | | | |
| | | to Free Water in | | | | | |
| | Depth | to Saturated Soi | iis(in.): U | | | | |
| Rema | ırks | | | | | | |
| | | | | | | | |
| Calla | | | | | | | |
| Soils | | | | | | | |
| Depth | n Hor. | Matrix | Mottle / 2nd Mo | ottle | Texture, | | |
| Depth (in.) | | Color | Color | Abundance C | ontrast Structure | e, etc. | |
| Depth (in.) 0-3 | A | Color 5YR 4/2 | Color 7.5YR 5/8 | Abundance C common | Sontrast Structure Silt | e, etc. | |
| Depth (in.) | | Color | Color | Abundance C | ontrast Structure | e, etc. | |
| Depth (in.) 0-3 3-12 | A B | Color 5YR 4/2 | Color 7.5YR 5/8 | Abundance C common | Sontrast Structure Silt | e, etc. | |
| Depth (in.) 0-3 3-12 | A B | Color 5YR 4/2 5YR 5/3 | Color 7.5YR 5/8 | Abundance C common common | Sontrast Structure Silt | e, etc. | |
| Depth (in.) 0-3 3-12 Hydrid | A B c Soils i | Color 5YR 4/2 5YR 5/3 | Color 7.5YR 5/8 | Abundance C common common | ontrast Structure Silt Silt | | |
| Depth (in.) 0-3 3-12 Hydrid | A B c Soils i | Color 5YR 4/2 5YR 5/3 Indicators ol Epipedon | Color 7.5YR 5/8 | Abundance C common common [] Cor [] Hig | ontrast Structure Silt Silt Silt | | |
| Depth (in.) 0-3 3-12 Hydrid | A B c Soils I] Histos] Histic] Sulfidi | Color 5YR 4/2 5YR 5/3 Indicators ol Epipedon | Color 7.5YR 5/8 7.5YR 5/8 | Abundance C common common [] Cor [] Hig [] Org | Sontrast Structure Silt Silt Silt ncretions h Organic % in Surface | Layer | |
| Depth (in.) 0-3 3-12 Hydric [| A B c Soils I] Histos] Histic] Sulfidi] Proba | Color 5YR 4/2 5YR 5/3 Indicators ol Epipedon c Odor | Color 7.5YR 5/8 7.5YR 5/8 | Abundance C common common [] Cor [] Hig [] Org [] List | Sontrast Structure Silt Silt Silt ncretions h Organic % in Surface anic Streaking | Layer s List | |
| Depth (in.) 0-3 3-12 Hydric [| A B c Soils if] Histos] Histic] Sulfidi] Probal] Reduc | Color 5YR 4/2 5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Mois | Color 7.5YR 5/8 7.5YR 5/8 | Abundance C common C C C C C C C C C | ontrast Structure Silt Silt ncretions h Organic % in Surface anic Streaking ed on Local Hydric Soils | Layer s List | |
| Depth (in.) 0-3 3-12 Hydrid [[] [] [X] [X] | A B c Soils i] Histos] Histic] Sulfidi] Proba] Reduc] Gleyer | Color 5YR 4/2 5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moisting Conditions | Color 7.5YR 5/8 7.5YR 5/8 | Abundance C common common [] Cor [] Hig [] Org [] List [] Oth | ontrast Structure Silt Silt necretions h Organic % in Surface lanic Streaking ed on Local Hydric Soils ed on National Hydric S er (explain in remarks) | Layer s List | |
| Depth (in.) 0-3 3-12 Hydrid [| A B c Soils I Histos Histic Sulfidi Proba Reduc Gleyer | Color 5YR 4/2 5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moisting Conditions d or Low-Chrom | Color 7.5YR 5/8 7.5YR 5/8 | Abundance C common common [] Cor [] Hig [] Org [] List [] Oth Taxonomy | ontrast Structure Silt Silt Silt necretions h Organic % in Surface lanic Streaking ed on Local Hydric Soils ed on National Hydric S er (explain in remarks) | Layer s List coils List | |
| Depth (in.) 0-3 3-12 Hydrid [| A B c Soils i] Histos] Histic] Sulfidi] Proba] Reduc] Gleyer | Color 5YR 4/2 5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moisting Conditions d or Low-Chrom | Color 7.5YR 5/8 7.5YR 5/8 | Abundance C common common [] Cor [] Hig [] Org [] List [] Oth Taxonomy | ontrast Structure Silt Silt necretions h Organic % in Surface lanic Streaking ed on Local Hydric Soils ed on National Hydric S er (explain in remarks) | Layer s List coils List | |
| Depth (in.) 0-3 3-12 Hydrid [| A B c Soils I Histos Histic Sulfidi Probal Reduce Gleyen Jame: | Color 5YR 4/2 5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moisting Conditions d or Low-Chrom | Color 7.5YR 5/8 7.5YR 5/8 | Abundance C common common [] Cor [] Hig [] Org [] List [] Oth Taxonomy | ontrast Structure Silt Silt Silt necretions h Organic % in Surface lanic Streaking ed on Local Hydric Soils ed on National Hydric S er (explain in remarks) | Layer s List coils List | |
| Depth (in.) 0-3 3-12 Hydric [[[X] [X] Unit N Draina | A B c Soils I Histos Histic Sulfidi Proba Reduc Gleyed Aame: age Cla | Color 5YR 4/2 5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moisting Conditions d or Low-Chromess: | Color 7.5YR 5/8 7.5YR 5/8 st Regime na Colors | Abundance C common common [] Cor [] Hig [] Org [] List [] Oth Taxonomy | ontrast Structure Silt Silt Silt necretions h Organic % in Surface lanic Streaking ed on Local Hydric Soils ed on National Hydric S er (explain in remarks) | Layer s List coils List | |
| Depth (in.) 0-3 3-12 Hydrid [| A B c Soils I] Histos] Histic] Sulfidi] Probal] Reduc] Gleyer lame: age Cla | Color 5YR 4/2 5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moisting Conditions d or Low-Chrometes: | Color 7.5YR 5/8 7.5YR 5/8 st Regime na Colors | Abundance C common common [] Cor [] Hig [] Org [] List [] Oth Taxonomy [] Field C | contrast Structure Silt Silt Silt Incretions In Organic % in Surface It is in Surface It i | Layer s List soils List | |
| Depth (in.) 0-3 3-12 Hydrid [| A B c Soils I] Histos] Histic] Sulfidi] Probal] Reduc] Gleyer lame: age Cla | Color 5YR 4/2 5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moisting Conditions d or Low-Chrometes: eterminatio rtic Vegetation F | Color 7.5YR 5/8 7.5YR 5/8 st Regime na Colors | Abundance C common common [] Cor [] Hig [] Org [] List [] Oth Taxonomy [] Field C | ontrast Structure Silt Silt Silt necretions h Organic % in Surface lanic Streaking ed on Local Hydric Soils ed on National Hydric S er (explain in remarks) | Layer s List soils List | |
| Depth (in.) 0-3 3-12 Hydrid [| A B c Soils in History History Sulfidial Probal Reduce Gleyer Hame: Age Clarks Age Clarks Age Clarks | Color 5YR 4/2 5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moisting Conditions d or Low-Chromess: eterminatio rtic Vegetation Foils Present | Color 7.5YR 5/8 7.5YR 5/8 8t Regime na Colors Present | Abundance C common common [] Cor [] Hig [] Org [] List [] Oth Taxonomy [] Field C | contrast Structure Silt Silt Silt Incretions In Organic % in Surface It is in Surface It i | Layer s List soils List | |
| Depth (in.) 0-3 3-12 Hydrid [| A B c Soils I Histos Histic Sulfidi Probal Reduce Gleyer Gleyer Aame: Age Cla KS The December of the Company o | Color 5YR 4/2 5YR 5/3 Indicators ol Epipedon c Odor ble Aquatic Moisting Conditions d or Low-Chrometes: eterminatio rtic Vegetation F | Color 7.5YR 5/8 7.5YR 5/8 8t Regime na Colors Present | Abundance C common common [] Cor [] Hig [] Org [] List [] Oth Taxonomy [] Field C | contrast Structure Silt Silt Silt Incretions In Organic % in Surface It is in Surface It i | Layer s List soils List | |

| Project/Site: Concord Resort, Thompson, NY | Date: October 19, 2004 |
|---|------------------------------------|
| Applicant/Owner: Concord Associates, LP | County: Sullivan |
| Investigator: Ethan Stewart | State: New York |
| [X] Do normal circumstances exist on the site? | Community ID: W36 |
| [X] Have vegetation, soils, or hydrology been disturbed? | Station ID: Transect 36.1 |
| [X] Is the area a potential problem area? | Plot ID: Upland |
| Vegetation | Or Ossess the Newton |
| Dominant Species Common Name Herbaceous | % Cover Indicator |
| X Golf Coarse Grass | |
| % Species that are OBL, FACW, or FAC (except FAC-): 0 | owardin Classification: |
| Remarks | |
| | |
| Hydrology Primary Wetland Hydrology Indicate | ors Secondary Hydrology Indicators |
| [] Recorded Data (describe in remarks) [] Inundated | [] Oxidized root channels |
| [] Stream, Lake, or Tide Gage [] Saturated in upper 12 inches | • • |
| [] Aerial Photograph [] Water marks | Decal soil survey data |
| [] Other (describe in remarks) [] Drift lines | [] FAC-Neutral test |
| Field Observations: [] Sediment deposits | Other (explain in remarks) |
| Depth of Surface Water(in.): 0 [] Drainage patterns in wetland | ds |
| Depth to Free Water in Pit(in.): >24 | |
| Depth to Saturated Soils(in.): >24 | |
| · | |
| Remarks | |
| Soils | |
| | |
| | Fexture, Structure, etc. |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | Silt Loam |
| 10YR 4/1 few | Nu. 1 |
| | Silt Loam Silt |
| | DIIL |
| Hydric Soils Indicators | |
| [] Histosol [] Concretions | 0 / 1 |
| [] Histic Epipedon [] High Organic % in S | Surface Layer |
| [] Sulfidic Odor [] Organic Streaking [X] Probable Aquatic Moist Regime [] Listed on Local Hyd | dria Caila Liat |
| [] Reducing Conditions [] Listed on National I | |
| [X] Gleyed or Low-Chroma Colors [] Other (explain in re | |
| | a |
| Unit Name: Taxonomy: | atah man |
| Drainage Class: [] Field Observations ma | асп тар |
| Remarks | |
| Wetland Determination | |
| [] Hydrophytic Vegetation Present [] This Data Point is a | a Wetland |
| [X] Hydric Soils Present | |
| [] Wetland Hydrology Present | |
| Remarks | |
| Upland | |

City: Thompson

Job Number: 100309

Wetland Data Point: W36(wetland) Project/Site: Concord Resort, Thompson, NY Date: October 19, 2004 County: Sullivan Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart State: New York [X] Do normal circumstances exist on the site? Community ID: W36 [] Have vegetation, soils, or hydrology been disturbed? Station ID: Transect 36.1 [] Is the area a potential problem area? Plot ID: Wetland Vegetation Dominant Species **Common Name** % Cover Indicator **Herbaceous** Aster, Flat-Top White **FACW** Aster umbellatus Sphagnum sp. Athyrium thelypteroides Fern, Silvery Lady FAC Thelypteris noveboracensis Fern, New York FAC <u>Tree</u> Tsuga canadensis Hemlock, Eastern **FACU** Pinus strobus Pine, Eastern White **FACU** Acer rubrum Maple,Red FAC % Species that are OBL, FACW, or FAC (except FAC-): 50 Cowardin Classification: Remarks Hydrology Primary Wetland Hydrology Indicators Secondary Hydrology Indicators [] Recorded Data (describe in remarks) [X] Inundated [X] Oxidized root channels [] Stream, Lake, or Tide Gage [X] Saturated in upper 12 inches [X] Water-stained leaves [] Aerial Photograph [X] Water marks [] Local soil survey data [X] Drift lines [] Other (describe in remarks) [] FAC-Neutral test [X] Sediment deposits [] Other (explain in remarks) Field Observations: [X] Drainage patterns in wetlands Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): 0 Depth to Saturated Soils(in.): 0 Remarks Soils Depth Hor. Matrix Mottle / 2nd Mottle Texture, (in.) Color Abundance Contrast Structure, etc. GLEY2 2.5/5PB 3-0 0 decomposed leaves 2.5YR 3/1 3-7 Silt Loam Α 2.5YR 2.5/1 common 7-12 Bg GLEY1 6/10Y 10YR 6/8 Silty Clay many 10YR 4/1 common Hydric Soils Indicators [] Histosol [] Concretions [] High Organic % in Surface Layer [] Histic Epipedon [] Sulfidic Odor [] Organic Streaking [X] Probable Aquatic Moist Regime [] Listed on Local Hydric Soils List [X] Reducing Conditions [] Listed on National Hydric Soils List [X] Gleyed or Low-Chroma Colors [] Other (explain in remarks) Unit Name: Taxonomy: **Drainage Class:** [] Field Observations match map Remarks **Wetland Determination** [X] Hydrophytic Vegetation Present [X] This Data Point is a Wetland [X] Hydric Soils Present [X] Wetland Hydrology Present Remarks

| Project/Site: Concord Resort, Thompson, N' Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [X] Have vegetation, soils, or hydrology been different area a potential problem area? Vegetation | | Date: October 19, 2004 County: Sullivan State: New York Community ID: W35 Station ID: Transect 35.1 Plot ID: Upland |
|---|--|--|
| Dominant Species | Common Name | % Cover Indicator |
| <u>Herbaceous</u> X Golf Coarse Grass | | |
| % Species that are OBL, FACW, or FAC (excepted Remarks Golf Coarse Green | ot FAC-): 0 | Cowardin Classification: |
| Hydrology | Primary Wetland Hydrology In | dicators Secondary Hydrology Indicators |
| [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | [] Inundated [] Saturated in upper 12 in [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in we | [] Oxidized root channels nches [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| Depth Hor. Matrix Mottle / 2nd | | Texture, |
| (in.) Color Color 0-14 A 5YR 4/1 GLEY2 6/ GLEY1 4/N | Abundance Contrast common | Structure, etc. Silt Loam |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [X] Probable Aquatic Moist Regime [X] Reducing Conditions [X] Gleyed or Low-Chroma Colors | [] Organic Strea [] Listed on Loca | al Hydric Soils List onal Hydric Soils List |
| Unit Name: Drainage Class: | Taxonomy: [] Field Observation | ns match map |
| Remarks Filled Area | | · |
| Wetland Determination | | |
| [] Hydrophytic Vegetation Present [X] Hydric Soils Present [X] Wetland Hydrology Present Remarks Upland | [] This Data Poi | nt is a Wetland |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W35(wetland)

Project/Site: Concord Resort, Thompson, NY Date: October 19, 2004 Applicant/Owner: Concord Associates, LP County: Sullivan Investigator: Ethan Stewart State: New York Community ID: W35 [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been disturbed? Station ID: Transect 35.1 [X] Is the area a potential problem area? Plot ID: Wetland Vegetation

| vegetation | | | | |
|------------------|---------------------------------------|---------------------------|-------------------|--|
| Dominant | Species | Common Name | % Cover Indicator | |
| Herbaceou | <u>s</u> | | | |
| X | Thelypteris noveboracensis | Fern,New York | FAC | |
| | Sphagnum sp. | | | |
| | Aster umbellatus | Aster, Flat-Top White | FACW | |
| | Euonymus americanus | Strawberry-Bush, American | FAC | |
| | Athyrium thelypteroides | Fern, Silvery Lady | FAC | |
| <u>Shrub</u> | · · · · · · · · · · · · · · · · · · · | | | |
| X | Rhododendron maximum | Rhododendron, Rosebay | FAC | |
| | Vaccinium amoenum | Blueberry, Highbush | FACW | |
| Tree | | | | |
| <u>Tree</u> X | Acer rubrum | Maple,Red | FAC | |
| X | Tsuga canadensis | Hemlock,Eastern | FACU | |
| | Betula alleghaniensis | Birch, Yellow | FAC | |
| | Fagus grandifolia | Beech | FAC+ | |

[%] Species that are OBL, FACW, or FAC (except FAC-): 75 Cowardin Classification:

| Hydrology [] Recorded Data (describe in remarks) | Primary Wetland Hydrology Indicators [X] Inundated | Secondary Hydrology Indicators [X] Oxidized root channels |
|---|--|--|
| [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) | [X] Indidated[X] Saturated in upper 12 inches[X] Water marks[X] Drift lines | [X] Water-stained leaves [] Local soil survey data [] FAC-Neutral test |
| Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): 0 Depth to Saturated Soils(in.): 0 | [X] Sediment deposits [X] Drainage patterns in wetlands | [] Other (explain in remarks) |
| Remarks | | |

| Dopui | | MICHIA | Motto / Lina Mi | Ottio | | i oxtaro, | |
|---------|---------|---------------------|-----------------|-----------|-----------------|-----------------------|--|
| (in.) | | Color | Color | Abundance | Contrast | Structure, etc. | |
| 1-0 | 0 | 5YR 3/3 | | | | | |
| 0-16 | Α | GLEY1 2.5/N | GLEY1 4/N | common | | Silt | |
| 16-20 | 0 | GLEY2 2.5/5PB | | | | | |
| Hydric | Soils | Indicators | | | | | |
| [] | Histos | ol | | [] | Concretions | | |
| [] | Histic | Epipedon | | [X] | High Organic % | 6 in Surface Layer | |
| [] | Sulfidi | c Odor | | [] | Organic Streak | ing | |
| [X] | Proba | ble Aquatic Moist F | Regime | [] | Listed on Loca | Hydric Soils List | |
| [X] | Reduc | cing Conditions | | [] | Listed on Natio | nal Hydric Soils List | |
| [X] | Gleye | d or Low-Chroma (| Colors | [] | Other (explain | in remarks) | |
| Unit Na | ame: | | | Taxono | omv: | | |

[] Field Observations match map Drainage Class:

Remarks

Buried O layer with fibric material

Wetland Determination

[X] Hydrophytic Vegetation Present

[X] Hydric Soils Present

[X] Wetland Hydrology Present

Remarks

[X] This Data Point is a Wetland

WILLIAM KENNY

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [X] Have vegetation, soils, or hydrology been di [] Is the area a potential problem area? | | Date: October 19, 2004 County: Sullivan State: New York Community ID: W34 Station ID: Transect 34.1 Plot ID: Upland |
|--|--|--|
| Vegetation Dominant Species | Common Name | % Cover Indicator |
| Herbaceous X Golf Coarse Grass Tree Acer rubrum Pinus strobus Species that are OBL, FACW, or FAC (exceptions) | Maple,Red Pine,Eastern White of FAC-): 0 Co | FAC FACU wardin Classification: |
| Remarks | | |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicator [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | [] Oxidized root channels[] Water-stained leaves[] Local soil survey data[] FAC-Neutral test[] Other (explain in remarks) |
| Soils | | |
| Depth (in.) Hor. Color Matrix Color Mottle / 2nd Color 0-3 A 5YR 4/2 5YR 3/1 3-8 B 5YR 4/3 5YR 5/4 | Abundance Contrast Str common Sa | xture, ructure, etc. ind amy Sand |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: | [] Concretions [] High Organic % in So [] Organic Streaking [] Listed on Local Hydr [] Listed on National Hy [] Other (explain in rem | ic Soils List ydric Soils List |
| Drainage Class: | [] Field Observations mate | ch map |
| Remarks | | |
| Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a \ | Vetland |

Job Number: 100309 **Data Form** City: Thompson Wetland Data Point: W34(wetland) **Routine Wetland Determination**

| Droiset/Cit | | | | | | |
|--|---|---|---|--|----------------------------|------------|
| PICHACTIST | te: Concord Resort, | Thompson NY | | Date | e: October 19, 2004 | _ |
| • | Owner: Concord Ass | | | | nty: Sullivan | |
| | | ociates, Li | | | e: New York | |
| | or: Ethan Stewart rmal circumstances exist | et on the cite? | | | | |
| | | | | | nmunity ID: W34 | |
| | vegetation, soils, or hyd | • | urbea? | | ion ID: Transect 34.1 | |
| | area a potential probler | n area? | | Plot | ID: Wetland | |
| Vegetati | ion | | | | | |
| Dominant | t Species | | Common Name | | % Cover | Indicator |
| <u>Herbaceo</u> | <u>ous</u> | | | | | |
| X | Aster umbellatus | | Aster,Flat-Top White | | | FACW |
| | Euonymus america | nus | Strawberry-Bush,Ame | rican | | FAC |
| | Carex granularis | | Sedge,Meadow | | | FACW+ |
| | sphagnum sp. Thelypteris novebo | racancia | Fern,New York | | | FAC |
| | Athyrium thelyptero | | Fern, Silvery Lady | | | FAC |
| Shrub | ranynam anoryptoro | 1400 | 1 cm, onvery Ludy | | | 1710 |
| X | Vaccinium amoenu | m | Blueberry, Highbush | | | FACW |
| <u>Tree</u> | | | , · · · · · | | | |
| X | Tsuga canadensis | | Hemlock, Eastern | | | FACU |
| Χ | Pinus strobus | | Pine,Eastern White | | | FACU |
| | Fraxinus pennsylva | | Ash,Green | | | FACW |
| | Betula alleghaniens | SIS | Birch, Yellow | | | FAC |
| % Species | Acer rubrum s that are OBL, FACW, | or FAC (except | Maple,Red | Cowardii | n Classification: | FAC |
| | S that are ODL, FACVV, | or FAC (except | PAC-). 30 | Cowardii | ii CiassiiiCation. | |
| Remarks | | | | | | |
| | | | | | | |
| Hydrolo | gy | | Primary Wetland Hydrology I | ndicators | Secondary Hydrology | Indicators |
| []Reco | orded Data (describe in | remarks) | [X] Inundated | | Oxidized root c | |
| |] Stream, Lake, or Tide | | [X] Saturated in upper 12 inches | | [X] Water-stained I | |
| | | Gaye | | | | |
| |] Aerial Photograph | | [X] Water marks | | [] Local soil surve | • |
| L. |] Other (describe in ren | narks) | [X] Drift lines | | [] FAC-Neutral te | |
| Field Ob | servations: | | [X] Sediment deposits | | [] Other (explain i | n remarks) |
| | epth of Surface Water(ir | a \. 1 | [X] Drainage patterns in v | etlands | | |
| | | | | | | |
| | epth to Free Water in Pi | | | | | |
| De | epth to Saturated Soils(| ın.): 0 | | | | |
| Remarks | 3 | | | | | |
| | | | | | | |
| Soils | | | | | | |
| | | | | | | |
| | Hor. Matrix | Mottle / 2nd N | | Texture | • | |
| (in.) | Color | Color | Abundance Contrast | Structur | e, etc. | |
| 1-0 | O GLEY2 2.5/5PB | | | | | |
| | A.D1/D.6/- | 4.63.45 = 1- | | • | | |
| | AB 5YR 3/2 | 10YR 5/6 | common | Silt | | |
| | AB 5YR 3/2 | 10YR 5/6 10YR 4/1 | common few | Silt | | |
| 0-16 | | | | Silt | | |
| 0-16 Hydric S | Soils Indicators | | few | Silt | | |
| 0-16 // Hydric S | Soils Indicators istosol | | few [] Concretions | | al aver | |
| 0-16 // <i>Hydric</i> S [] Hi [] Hi | Soils Indicators istosol istic Epipedon | | few [] Concretions [] High Organic | % in Surface | • Layer | |
| 0-16 Hydric S [] Hi [] Hi [X] Si | Soils Indicators istosol istic Epipedon ulfidic Odor | 10YR 4/1 | few [] Concretions [] High Organic [] Organic Stre | % in Surface | • | |
| 0-16 Hydric S [] Hi [X] Si [X] Pi | Soils Indicators istosol istic Epipedon ulfidic Odor robable Aquatic Moist F | 10YR 4/1 | few [] Concretions [] High Organic [] Organic Stre [] Listed on Loc | % in Surface aking al Hydric Soi | ls List | |
| 0-16 Hydric S [] Hi [] X] Si [X] Pi [X] Ri | Soils Indicators istosol istic Epipedon ulfidic Odor robable Aquatic Moist F educing Conditions | 10YR 4/1 | few [] Concretions [] High Organic [] Organic Stre [] Listed on Loc [] Listed on Na | % in Surface aking al Hydric Soi ional Hydric S | ls List Soils List | |
| 0-16 Hydric S [] Hi [] X] Si [X] Pi [X] Ri | Soils Indicators istosol istic Epipedon ulfidic Odor robable Aquatic Moist F | 10YR 4/1 | few [] Concretions [] High Organic [] Organic Stre [] Listed on Loc | % in Surface aking al Hydric Soi ional Hydric S | ls List Soils List | |
| 0-16 Hydric S [] Hi [] Hi [X] Si [X] Pi [X] Ri [] G | Soils Indicators istosol istic Epipedon ulfidic Odor robable Aquatic Moist F educing Conditions tleyed or Low-Chroma (| 10YR 4/1 | few [] Concretions [] High Organic [] Organic Stre [] Listed on Loc [] Listed on Na [] Other (explain | % in Surface aking al Hydric Soi ional Hydric S | ls List Soils List | |
| O-16 Hydric S [] Hi [] Hi [X] Si [X] Pi [X] Ri [] G Unit Nam | Soils Indicators istosol istic Epipedon ulfidic Odor robable Aquatic Moist F educing Conditions sleyed or Low-Chroma (| 10YR 4/1 | few [] Concretions [] High Organic [] Organic Stre [] Listed on Loc [] Listed on Na [] Other (explain | % in Surface aking al Hydric Soi ional Hydric S n in remarks) | ls List Soils List | |
| 0-16 Hydric S [] Hi [] Hi [X] Si [X] Pi [X] Ri [] G | Soils Indicators istosol istic Epipedon ulfidic Odor robable Aquatic Moist F educing Conditions sleyed or Low-Chroma (| 10YR 4/1 | few [] Concretions [] High Organic [] Organic Stre [] Listed on Loc [] Listed on Na [] Other (explain | % in Surface aking al Hydric Soi ional Hydric S n in remarks) | ls List Soils List | |
| O-16 Hydric S [] Hi [X] Si [X] Pi [X] Ri [] G Unit Nam Drainage | Soils Indicators istosol istic Epipedon ulfidic Odor robable Aquatic Moist F educing Conditions sleyed or Low-Chroma (| 10YR 4/1 | few [] Concretions [] High Organic [] Organic Stre [] Listed on Loc [] Listed on Na [] Other (explain | % in Surface aking al Hydric Soi ional Hydric S n in remarks) | ls List Soils List | |
| Hydric S [] Hi [] Y [X] Si [X] Pi [X] Ri [] G Unit Nam Drainage | Coils Indicators istosol istic Epipedon ulfidic Odor robable Aquatic Moist F educing Conditions sleyed or Low-Chroma (ne: e Class: | 10YR 4/1 | few [] Concretions [] High Organic [] Organic Stre [] Listed on Loc [] Listed on Na [] Other (explain | % in Surface aking al Hydric Soi ional Hydric S n in remarks) | ls List Soils List | |
| O-16 Hydric S [] Hi [] K] Si [X] Pi [X] Ri [] G Unit Nam Drainage Remarks Wetland | Soils Indicators istosol istic Epipedon ulfidic Odor robable Aquatic Moist F educing Conditions eleyed or Low-Chroma C ne: e Class: | 10YR 4/1 Regime | few [] Concretions [] High Organic [] Organic Stre [] Listed on Loc [] Listed on Na [] Other (explain Taxonomy: [] Field Observation | % in Surface aking al Hydric Soi ional Hydric S n in remarks) ns match ma | ls List Soils List p | |
| O-16 Hydric S [] Hi [] K] Si [X] Pi [X] Ri [] G Unit Nam Drainage Remarks Wetland | Coils Indicators istosol istic Epipedon ulfidic Odor robable Aquatic Moist F educing Conditions sleyed or Low-Chroma (ne: e Class: | 10YR 4/1 Regime | few [] Concretions [] High Organic [] Organic Stre [] Listed on Loc [] Listed on Na [] Other (explain | % in Surface aking al Hydric Soi ional Hydric S n in remarks) ns match ma | ls List Soils List p | |
| O-16 Hydric S [] Hi [] Hi [X] Si [X] Pi [X] Ri [] G Unit Nam Drainage Remarks Wetland [X] Hydri | Soils Indicators istosol istic Epipedon ulfidic Odor robable Aquatic Moist F educing Conditions eleyed or Low-Chroma C ne: e Class: | 10YR 4/1 Regime | few [] Concretions [] High Organic [] Organic Stre [] Listed on Loc [] Listed on Na [] Other (explain Taxonomy: [] Field Observation | % in Surface aking al Hydric Soi ional Hydric S n in remarks) ns match ma | ls List Soils List p | |
| O-16 Hydric S [] Hi [] Hi [X] Si [X] Pi [X] Ri [] G Unit Nam Drainage Remarks Wetland [X] Hydri [X] Hydri | Soils Indicators istosol istic Epipedon ulfidic Odor robable Aquatic Moist F educing Conditions eleyed or Low-Chroma C ne: e Class: I Determination rophytic Vegetation Pres | 10YR 4/1 Regime Colors | few [] Concretions [] High Organic [] Organic Stre [] Listed on Loc [] Listed on Na [] Other (explain Taxonomy: [] Field Observation | % in Surface aking al Hydric Soi ional Hydric S n in remarks) ns match ma | ls List Soils List p | |

| Applicant/Ov Investigator: [X] Do norm: [X] Have veg | ea a potential problem N Species | t on the site? ology been disturbed? | Common Name Cedar,Eastern Red | Date: October 19, 2004 County: Sullivan State: New York Community ID: W34 Station ID: Transect 34.2 Plot ID: Upland % Cover | Indicator FACU |
|---|--|---|--|--|--|
| X | Pinus strobus Fagus grandifolia nat are OBL, FACW, c | or FAC (except FAC-): | Pine,Eastern White Beech 0 | Cowardin Classification: | FACU FAC+ |
| []S []A []C Field Obse Depti Depti | ed Data (describe in r stream, Lake, or Tide of terial Photograph Other (describe in remains) | emarks) [] Gage [] arks) [] (): 0 (in.): >24 | ry Wetland Hydrology Indic Inundated Saturated in upper 12 inch Water marks Drift lines Sediment deposits Drainage patterns in wetla | [] Oxidized root nes [] Water-stained [] Local soil sur [] FAC-Neutral [] Other (explain | channels d leaves vey data test |
| Soils Depth Ho (in.) | or. Matrix Color | Mottle / 2nd Mottle Color Ab | undance Contrast | Texture, Structure, etc. | |
| 1-0 O 0-12 A | 5YR 3/1 10R 4/6 | | mmon | decomposed leaves Silt | |
| [] Histo [] Histo [] Sulfi [] Prob [] Red | c Epipedon dic Odor pable Aquatic Moist Roucing Conditions wed or Low-Chroma C | | [] Concretions [] High Organic % i [] Organic Streaking [] Listed on Local H [] Listed on Nationa [] Other (explain in Taxonomy: [] Field Observations r | g Hydric Soils List al Hydric Soils List remarks) | |
| [] Hydrop [] Hydric | Determination hytic Vegetation Pres Soils Present d Hydrology Present | ent | [] This Data Point is | s a Wetland | |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W34(wetland)

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been discontinuous problem area? | | Date: October 19, 2004 County: Sullivan State: New York Community ID: W34 Station ID: Transect 34.2 Plot ID: Wetland |
|--|---|---|
| Vegetation | Oaman Nama | O' O a serve de dia esta es |
| Dominant Species Herbaceous | Common Name | % Cover Indicator |
| X Aster umbellatus Aster vimineus Lycopodium dendroideum Juniperus virginiana Sphagnum sp. Euonymus americanus Tree X Pinus strobus Fraxinus pennsylvanica Betula alleghaniensis Fagus grandifolia % Species that are OBL, FACW, or FAC (excep | Aster,Flat-Top White Aster,Small White Clubmoss,Tree-Like Cedar,Eastern Red Strawberry-Bush,Americar Pine,Eastern White Ash,Green Birch,Yellow Beech t FAC-): 50 | FACW FACU FACU FACU FACU FACU FACW FACW FACW FAC |
| Remarks | | |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): 1 Depth to Saturated Soils(in.): 0 Remarks | Primary Wetland Hydrology Indica [X] Inundated [X] Saturated in upper 12 inche [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in wetlan | [] Oxidized root channels es [X] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| Depth Hor. Matrix Mottle / 2nd Color 2-0 O GLEY2 2.5/5PB 0-12 AB 2.5YR 4/4 2.5YR 4/6 5YR 5/8 | Mottle Abundance Contrast few few few | Texture, Structure, etc. |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [X] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: Remarks | [] Concretions [] High Organic % ir [] Organic Streaking [] Listed on Local High [] Listed on National [] Other (explain in recommodation) Taxonomy: [] Field Observations makes and the second strength of the control of the | g ydric Soils List Il Hydric Soils List remarks) |
| Wetland Determination | | |
| [X] Hydrophytic Vegetation Present[X] Hydric Soils Present[X] Wetland Hydrology PresentRemarks | [X] This Data Point is | a Wetland |

| Applicant/Or Investigator: [X] Do norm [] Have ve | Concord Resort, wner: Concord As Ethan Stewart al circumstances ex getation, soils, or hy ea a potential proble | ist on the site? | urbed? | | Coun State Comr Statio | October 19, 2004 ty: Sullivan : New York nunity ID: W33 on ID: Transect 33.1 D: Upland | |
|--|--|---|---|---|---|--|--------------------------------------|
| Dominant | Species | | Commoi | n Name | | % Cover | Indicator |
| Herbaceous X Tree X | <u>s</u> Thelypteris novebo Athyrium thelypter Tsuga canadensis | | Fern,Nev Fern,Silv Hemlock | ery Lady | | | FAC FAC FACU |
| % Species t Remarks | Fagus grandifolia nat are OBL, FACW | , or FAC (except I | Beech FAC-): 50 | | Cowardin | Classification: | FAC+ |
| [] { [] // [] // [] C | led Data (describe in Stream, Lake, or Tid Aerial Photograph Other (describe in re | e Gage marks) in.): 0 it(in.): >24 | [] Water ma [] Drift lines [] Sediment | d I in upper 12 in arks | ches | Secondary Hydrology [] Oxidized root of the content of the conte | channels leaves ey data est |
| Soils | | | | | | | |
| | or Motrix | Mottle / 2nd M | o#lo | | Tovturo | | |
| Depth Ho (in.) 3-0 O 0-4 A 4-16 B | or. Matrix Color 5YR 3/1 10R 4/4 2.5YR 4/4 | Mottle / 2nd M Color 10R 3/1 2.5YR 4/3 | Abundance common few | Contrast | Texture, Structure, decompo | , etc. osed leaves | |
| Hydric Soi [] Hist [] Hist [] Sulf [] Pro [] Rec | ds Indicators osol ic Epipedon idic Odor pable Aquatic Moist lucing Conditions yed or Low-Chroma | Regime | [] [] [] [] [] | Concretions High Organic 9 Organic Streak Listed on Loca Listed on Natio Other (explain omy: Id Observation | 6 in Surface I ing I Hydric Soils nal Hydric So in remarks) | List | |
| Remarks | | | | | | | |
| [] Hydrop [] Hydric | Determination hytic Vegetation Pre Soils Present d Hydrology Presen | esent | [] | This Data Poin | t is a Wetland | d | |

Job Number: **100309** City: **Thompson**

Wetland Data Point: W33(wetland)

| Project/Site: | Concord Resort, T | hompson, NY | | Date: October 19, 2004 | |
|----------------|--|---|---------------------------------------|---------------------------|--------------|
| Applicant/Ow | ner: Concord Asso | ciates, LP | | County: Sullivan | |
| Investigator: | Ethan Stewart | | | State: New York | |
| [X] Do norma | al circumstances exis | t on the site? | | Community ID: W33 | |
| [] Have veg | getation, soils, or hydr | ology been disturbed? | | Station ID: Transect 33.1 | |
| [] Is the are | a a potential problem | area? | | Plot ID: Wetland | |
| Vegetatio | n | | | | |
| Dominant | Species | | Common Name | % Cover | Indicator |
| Herbaceous | | | | 7,00000 | |
| X | Thelypteris novebore | | Fern,New York | | FAC |
| | Lycopodium dendroi | deum | Clubmoss,Tree-Like | | FACU |
| | Sphagnum sp. Athyrium thelypteroid | des | Fern, Silvery Lady | | FAC |
| <u>Tree</u> | Autynant thetypteron | ue3 | Terri, Silvery Lady | | TAC |
| X | Acer rubrum | | Maple,Red | | FAC |
| Χ | Fagus grandifolia | | Beech | | FAC+ |
| | Betula alleghaniensi | S | Birch, Yellow | | FAC |
| | Pinus strobus Tsuga canadensis | | Pine,Eastern White Hemlock,Eastern | | FACU FACU |
| % Species th | | or FAC (except FAC-): | | Cowardin Classification: | 1700 |
| Remarks | ,, | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | |
| | | | | | |
| Hydrology | | | | | |
| | | | ry Wetland Hydrology Indica | , , , | |
| | ed Data (describe in r | , | Inundated | [] Oxidized root (| |
| | tream, Lake, or Tide | | Saturated in upper 12 inch | • • | |
| | erial Photograph | | Water marks | [] Local soil surv | • |
| []0 | ther (describe in rem | , | Drift lines | [] FAC-Neutral to | |
| Field Obser | rvations: | | Sediment deposits | [] Other (explain | in remarks) |
| Depth | n of Surface Water(in | .): 0 [X] | Drainage patterns in wetlan | nds | |
| | n to Free Water in Pit | | | | |
| | n to Saturated Soils(ir | | | | |
| · | . 10 0414.4104 00.10(| ,. • | | | |
| Remarks | | | | | |
| 0-!- | | | | | |
| Soils | | | | | |
| | r. Matrix | Mottle / 2nd Mottle | | Texture, | |
| (in.) | Color | Color Abu | undance Contrast | Structure, etc. | |
| 3-0 O | GLEY2 2.5/5PB | 0.5VD.0/4 | | City I a a see | |
| 0-3 A | 2.5YR 3/2 2.5YR 4/4 | | mmon | Silt Loam Silt Loam | |
| 3-12 B | 2.51 K 4/4 | 2.5YR 5/8 co 2.5YR 5/4 fev | mmon | Siit Loam | |
| | | 2.511(5/4 10) | ν | | |
| Hydric Soils | | | | | |
| [] Histo | | | [] Concretions | | |
| | c Epipedon | | [] High Organic % in | | |
| | dic Odor | | [] Organic Streaking | | |
| | able Aquatic Moist R | egime | [] Listed on Local H | • | |
| | ucing Conditions | | [] Listed on Nationa | | |
| [X] Gley | ed or Low-Chroma C | olors | Other (explain in | remarks) | |
| Unit Name: | | | Taxonomy: | | |
| Drainage C | | | [] Field Observations n | natch map | |
| • | | | 1 1 0.0001 valion 10 11 | | |
| Remarks | | | | | |
| | | | | | |
| Wetland D | Determination | | | | |
| | hytic Vegetation Pres Soils Present | ent | [X] This Data Point is | s a Wetland | |
| | d Hydrology Present | | | | |

| Project/Site: Concord Resort, Thompson, N' Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [X] Have vegetation, soils, or hydrology been d [] Is the area a potential problem area? | C S C isturbed? S | ate: October 19, 2004 ounty: Sullivan tate: New York ommunity ID: W33 tation ID: Transect 33.2 lot ID: Upland |
|--|---|--|
| Vegetation Dominant Species | Common Name | % Cover Indicator |
| Herbaceous X Golf Coarse Tree | Common Name | % cover mulcator |
| Pinus strobus Acer rubrum % Species that are OBL, FACW, or FAC (except | Pine,Eastern White Maple,Red ot FAC-): 0 Cowar | FACU FAC rdin Classification: |
| Remarks | 3.17.6). 6 | |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicators [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | Secondary Hydrology Indicators [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| Depth (in.) Hor. Matrix Mottle / 2nd Color 0-8 AB 5YR 3/3 5YR 3/1 5YR 4/6 | | re, ture, etc. |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: | [] Concretions [] High Organic % in Surfa [] Organic Streaking [] Listed on Local Hydric S [] Listed on National Hydri [] Other (explain in remark Taxonomy: [] Field Observations match r | Soils List ic Soils List is) |
| Remarks Shallow Rock | [] Fleid Observations materi | пар |
| Wetland Determination | | _ |
| [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a We | tland |

Job Number: 100309 City: Thompson

Wetland Data Point: W33(wetland)

| Project/Site: | Concord Resort | t, Thompson, NY | | Date | : October 19, 2004 | |
|-------------------|-----------------------|--------------------|-------------------|----------------------------|----------------------|--------------|
| Applicant/Ov | wner: Concord A | ssociates, LP | | Cour | nty: Sullivan | |
| Investigator: | Ethan Stewart | | | State | : New York | |
| [X] Do norm | al circumstances e | exist on the site? | | Com | munity ID: W33 | |
| [X] Have ve | getation, soils, or h | ydrology been dist | urbed? | Statio | on ID: Transect 33.2 | |
| [] Is the are | ea a potential probl | lem area? | | Plot I | D: Wetland | |
| Vegetatio | n | | | | | |
| Dominant | Species | | Common I | Namo | % Cover | Indicator |
| Herbaceous | | | Common | Name | /0 COVE | ilidicator |
| X | Aster umbellatus | | Aster,Flat- | Γορ White | | FACW |
| | Spirodela oligorrh | niza | Duckweed | • | | OBL |
| | Euonymus americ | canus | | -Bush,American | | FAC |
| Church | Carex granularis | | Sedge,Mea | adow | | FACW+ |
| <u>Shrub</u> X | Vaccinium amoei | num | Blueberry,ł | Highbuch | | FACW |
| | vaccinium amoei | iuiii | Dideberry,i | ligribusii | | TACW |
| <u>Tree</u> X | Acer rubrum | | Maple,Red | | | FAC |
| | Fagus grandifolia | 1 | Beech | | | FAC+ |
| | Pinus strobus | | Pine,Easte | | 01 ''' '' | FACU |
| | hat are OBL, FACV | V, or FAC (except | FAC-): 100 | Cowardin | Classification: | |
| Remarks | | | | | | |
| | | | | | | |
| Hydrolog | у | | Primary Wetland R | lydrology Indicators | Secondary Hydrology | v Indicators |
| • | led Data (describe | in remarks) | [X] Inundated | ., 5.0g,aioaioio | Oxidized root | |
| | Stream, Lake, or Ti | | | n upper 12 inches | [X] Water-stained | |
| | Aerial Photograph | de Gage | [X] Water mark | • • | [] Local soil surv | |
| | Other (describe in r | omorko) | [X] Water mark | 5 | [] FAC-Neutral to | • |
| [](| other (describe in r | emarks) | | : | • • | |
| Field Obse | rvations: | | [] Sediment d | • | [] Other (explain | in remarks) |
| Dept | h of Surface Water | r(in.): 1 | [X] Drainage pa | atterns in wetlands | | |
| | h to Free Water in | | | | | |
| | h to Saturated Soil | | | | | |
| Бор | in to Cataratea Con | 15(III.). U | | | | |
| Remarks | | | | | | |
| | | | | | | |
| Soils | | | | | | |
| | or. Matrix | Mottle / 2nd M | Inttle | Texture, | | |
| (in.) | Color | Color | | Contrast Structure | e. etc. | |
| 0-6 A | 5YR 3/1 | 5YR 3/2 | few | Silt | , 0.0. | |
| 6-12 B | GLEY1 5/N | 10R 6/4 | few | Silt | | |
| | | 2.5YR 4/1 | common | | | |
| I berduir Coi | la la dia a taua | | | | | |
| , | ls Indicators | | | | | |
| [] Hist | | | | oncretions | | |
| | ic Epipedon | | | gh Organic % in Surface | Layer | |
| [X] Sulf | idic Odor | | [] Oı | ganic Streaking | | |
| [] Prol | pable Aquatic Mois | t Regime | [] Lis | sted on Local Hydric Soils | s List | |
| [X] Red | lucing Conditions | | [] Lis | sted on National Hydric S | oils List | |
| [X] Gley | yed or Low-Chroma | a Colors | [] Ot | her (explain in remarks) | | |
| 11.24.81 | | | - | | | |
| Unit Name | | | Taxonom | • | | |
| Drainage C | Class: | | [] Field | Observations match map |) | |
| Remarks | | | | | | |
| Disturbed a | area | | | | | |
| | | n | | | | |
| | Determinatio | | | | | |
| [X] Hydrop | hytic Vegetation P | resent | [X] Th | is Data Point is a Wetlan | d | |
| | mylic vegetation i | 1000111 | [X] | | | |
| [X] Hydric | Soils Present | 1000111 | [X] | | | |
| | , , | | [X] | | | |

| Ap Inv [X] | plicant/0 restigato Do nor Have v Is the a | Owner: E mal weget area | er: Concord A Ethan Stewart circumstances 6 | exist on the site? hydrology been distu | rbed? | | Cou Stat Com Stat | e: October 19, 2004 nty: Sullivan e: New York nmunity ID: W32 ion ID: Transect 32.1 ID: Upland | |
|------------------|--|---|---|--|-------------------------|---------------------------|----------------------------|--|---------------|
| | getati minant | | pecies | | Commoi | n Name | | % Cover | Indicator |
| | rbaceo | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | Χ | | ycopodium com ycopodium den | | Clubmos | s,Trailing s,Tree-Like | | | FACU- FACU |
| Tre | ee | <i>L</i> | ycopodium den | uroideum | Ciubinos | S, ITEE-LIKE | | | FACO |
| | X | | suga canadens | | Hemlock | ,Eastern | | | FACU |
| % | Species | | agus grandifolia are OBL. FAC | a W, or FAC (except F | Beech AC-): 0 | | Cowardir | n Classification: | FAC+ |
| | marks | | | (| , | | | | |
| Hv | drolo | av | | | Primary Wetland | d Hydrology Ind | licators | Secondary Hydrology | / Indicators |
| • | | | l Data (describe | | Inundated | | icators | [] Oxidized root | |
| ٠ | | | eam, Lake, or Ti | | | l in upper 12 ind | ches | [] Water-stained | |
| | | | ial Photograph | - | [] Water ma | irks | | [] Local soil surv | ey data |
| | [] |] Oth | er (describe in I | emarks) | [] Drift lines | | | [] FAC-Neutral te | est |
| F | ield Ob | serva | ations: | | [] Sediment | • | | [] Other (explain | in remarks) |
| - | | | of Surface Wate | r(in.): 0 | [] Drainage | patterns in wet | lands | | |
| | | | o Free Water in | | | | | | |
| | De | pth t | o Saturated Soi | ls(in.): >24 | | | | | |
| R | emarks | ; | | | | | | | |
| So | ils | | | | | | | | |
| | | Hor | Matrix | Mottle / 2nd Mo | ottle | | Texture. | | |
| | n.) | | Color | Color | Abundance | Contrast | Structur | | |
| 3 | -0 | 0 | 5YR 3/1 | | | | decomp | oosed leaves | |
| _ | | A | 10R 4/4 | 10R 4/2 | | | Silt | | |
| _4 | -15 I | В | 2.5YR 4/4 | 2.5YR 3/4 | common | | Silt | | |
| F | Hydric S | oils I | ndicators | | | | | | |
| | [] Hi | stos | ol | | [] | Concretions | | | |
| | | | Epipedon | | | High Organic % | | Layer | |
| | | | c Odor | | | Organic Streaki | - | | |
| | | | ole Aquatic Mois | st Regime | | Listed on Local | | | |
| | | | ing Conditions | 0.1 | | Listed on Nation | - | Soils List | |
| | []G | leyed | d or Low-Chrom | a Colors | [] | Other (explain i | n remarks) | | |
| L | Init Nam | ne: | | | Taxono | my: | | | |
| | rainage | Cla | SS: | | [] Fie | d Observations | match ma | р | |
| Re | marks | | | | | | | | |
| We | tland | De | terminatio | n | | | | | |
| [|] Hydri | c So | tic Vegetation F oils Present Hydrology Prese | | []. | This Data Point | is a Wetla | nd | |
| Re | j vvetia marks Jpland | anu r | Tydrology 1 1630 | 51 IL | | | | | |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W32(wetland)

| Project/S | | | | | | | |
|---|--|---|---|---|---|---------------------------------|---------------|
| | Site: C | Concord Resort, | Thompson, NY | | Date: | October 19, 2004 | |
| Applican | nt/Owne | er: Concord As | sociates, LP | | Count | ty: Sullivan | |
| Investiga | ator: E | Ethan Stewart | | | State: | New York | |
| | | circumstances ex | kist on the site? | | | nunity ID: W32 | |
| | | | drology been dist | urhed? | | n ID: Transect 32.1 | |
| | _ | a potential proble | | arboa. | | D: Wetland | |
| | | a poteritiai proble | on alea: | | FIOUR | J. Welland | |
| Vegeta | | | | | | | |
| Domina | nt S | pecies | | Common Name | | % Cover | Indicator |
| <u>Herbace</u> | | | | | | | |
| X | | Aster umbellatus | | Aster,Flat-Top V | /hite | | FACW |
| | | Sphagnum sp | | 0 5 5 | | | E4011 |
| | | luniperus virginiar | | Cedar, Eastern R | | | FACU |
| | | Athyrium thelypter Thelypteris noveb | | Fern,Silvery Lad Fern,New York | у | | FAC FAC |
| <u>Tree</u> | , | neightens novem | Ulacelisis | T CITI, NOW TORK | | | TAO |
| X | Α | Acer rubrum | | Maple,Red | | | FAC |
| | | suga canadensis | 3 | Hemlock, Easter | า | | FACU |
| | | agus grandifolia | | Beech | | | FAC+ |
| % Speci | es that | are OBL, FACW | , or FAC (except | FAC-): 100 | Cowardin | Classification: | |
| Remarks | S | | | | | | |
| | | | | | | | |
| Lludral | 001/ | | | | | | |
| Hydrol | ogy | | | Primary Wetland Hydro | logy Indicators | Secondary Hydrolog | |
| [] Re | corded | l Data (describe i | n remarks) | [X] Inundated | | Oxidized root | channels |
| [|] Stre | eam, Lake, or Tid | le Gage | [X] Saturated in upp | er 12 inches | [X] Water-stained | lleaves |
| 1 | 1 Aer | rial Photograph | | [X] Water marks | | [] Local soil surv | vev data |
| | | er (describe in re | emarks) | Drift lines | | [] FAC-Neutral to | • |
| | 10 | .0. (0000000 | | [X] Sediment deposi | te | Other (explain | |
| Field C |)bserva | ations: | | | | [] Other (explain | i iii remana) |
| [| Depth o | of Surface Water(| (in.): 2 | [X] Drainage pattern | S III WELIAHUS | | |
| | Depth t | o Free Water in F | Pit(in.): 1 | | | | |
| | | | | | | | |
| | Denth t | | | | | | |
| L | Depth t | o Saturated Soils | | | | | |
| Remar | | | | | | | |
| | | | | | | | |
| Remar | | | | | | | |
| Remar Soils | rks | o Saturated Soils | s(in.): 0 | | | | |
| Remar Soils Depth | rks | o Saturated Soils Matrix | s(in.): 0 Mottle / 2nd N | | Texture, | | |
| Soils Depth (in.) | Hor. | o Saturated Soils Matrix Color | s(in.): 0 | 1ottle Abundance Contr | ast Structure, | | |
| Soils Depth (in.) 1-0 | Hor. | Matrix Color 5YR 3/1 | Mottle / 2nd M Color | Abundance Contr | ast Structure, decompo | etc. sed leaves | |
| Soils Depth (in.) | Hor. | o Saturated Soils Matrix Color | Mottle / 2nd M Color 10R 4/2 | Abundance Contr | ast Structure, | | |
| Soils Depth (in.) 1-0 | Hor. | Matrix Color 5YR 3/1 | Mottle / 2nd M Color | Abundance Contr | ast Structure, decompo | | |
| Remar Soils Depth (in.) 1-0 0-16 | Hor. O AB | Matrix Color 5YR 3/1 10R 4/3 | Mottle / 2nd M Color 10R 4/2 | Abundance Contr | ast Structure, decompo | | |
| Remar Soils Depth (in.) 1-0 0-16 | Hor. O AB | Matrix Color 5YR 3/1 10R 4/3 | Mottle / 2nd M Color 10R 4/2 | Abundance Contr common few | ast Structure, decompo Silt | | |
| Remar Soils Depth (in.) 1-0 0-16 Hydric [] | Hor. O AB Soils I | Matrix Color 5YR 3/1 10R 4/3 | Mottle / 2nd M Color 10R 4/2 | Abundance Control common few [] Concret | ast Structure, decompo | sed leaves | |
| Remar Soils Depth (in.) 1-0 0-16 Hydric [] | Hor. O AB Soils II. Histose | Matrix Color 5YR 3/1 10R 4/3 | Mottle / 2nd M Color 10R 4/2 | Abundance Controverse Common few [] Concrete [] High Or | ast Structure, decompositions ganic % in Surface I | sed leaves | |
| Remar | Hor. O AB Soils II. Histose Histic I Sulfidid | Matrix Color 5YR 3/1 10R 4/3 Indicators ol Epipedon c Odor | Mottle / 2nd M Color 10R 4/2 7.5YR 7/6 | Abundance Controverse Common few [] Concrete [] High Or [] Organice | ast Structure, decompositions ganic % in Surface Its Streaking | ased leaves | |
| Remar | Hor. O AB Soils II. Histose Histic I Sulfidie | Matrix Color 5YR 3/1 10R 4/3 Indicators ol Epipedon c Odor ble Aquatic Moist | Mottle / 2nd M Color 10R 4/2 7.5YR 7/6 | Abundance Contro | ast Structure, decompositions ganic % in Surface Its Streaking in Local Hydric Soils | ayer | |
| Remar | Hor. O AB Soils II. Histose Histic I Sulfidie | Matrix Color 5YR 3/1 10R 4/3 Indicators ol Epipedon c Odor | Mottle / 2nd M Color 10R 4/2 7.5YR 7/6 | Abundance Contro | ast Structure, decompositions ganic % in Surface Its Streaking | ayer | |
| Remar | Hor. O AB Soils II. Histose Histic I Sulfidie Probak Reduc | Matrix Color 5YR 3/1 10R 4/3 Indicators ol Epipedon c Odor ble Aquatic Moist | Mottle / 2nd M Color 10R 4/2 7.5YR 7/6 | Abundance Contro | ast Structure, decompositions ganic % in Surface Its Streaking in Local Hydric Soils | ayer | |
| Remar Soils Depth (in.) 1-0 0-16 Hydric [] [] [X] [X] | Hor. O AB Soils II. Histose Histic I Sulfidie Probab Reduc Gleyee | Matrix Color 5YR 3/1 10R 4/3 Indicators ol Epipedon c Odor ble Aquatic Moist ing Conditions | Mottle / 2nd M Color 10R 4/2 7.5YR 7/6 | Abundance Contro | ast Structure, decomposite Silt sions ganic % in Surface Lestreaking in Local Hydric Soils in National Hydric So | ayer | |
| Remar Soils Depth (in.) 1-0 0-16 Hydric [] [] [X] [X] Unit Na | Hor. O AB Soils II. Histoso Histic I Sulfidio Probak Reduc Gleyeo | Matrix Color 5YR 3/1 10R 4/3 Indicators ol Epipedon c Odor ble Aquatic Moist ing Conditions d or Low-Chroma | Mottle / 2nd M Color 10R 4/2 7.5YR 7/6 | Abundance Contro | ast Structure, decomposite Silt sions ganic % in Surface It Streaking in Local Hydric Soils in National Hydric Soexplain in remarks) | ayer | |
| Remar Soils Depth (in.) 1-0 0-16 Hydric [] [] [X] [X] | Hor. O AB Soils II. Histoso Histic I Sulfidio Probak Reduc Gleyeo | Matrix Color 5YR 3/1 10R 4/3 Indicators ol Epipedon c Odor ble Aquatic Moist ing Conditions d or Low-Chroma | Mottle / 2nd M Color 10R 4/2 7.5YR 7/6 | Abundance Contro | ast Structure, decomposite Silt sions ganic % in Surface Lestreaking in Local Hydric Soils in National Hydric So | ayer | |
| Remar Soils Depth (in.) 1-0 0-16 Hydric [] [] [X] [X] Unit Na | Hor. O AB Soils II. Histose Histic I Sulfidio Probab Reduc Gleyed ame: ge Clas | Matrix Color 5YR 3/1 10R 4/3 Indicators ol Epipedon c Odor ble Aquatic Moist ing Conditions d or Low-Chroma | Mottle / 2nd M Color 10R 4/2 7.5YR 7/6 | Abundance Contro | ast Structure, decomposite Silt sions ganic % in Surface It Streaking in Local Hydric Soils in National Hydric Soexplain in remarks) | ayer | |
| Remar Soils Depth (in.) 1-0 0-16 Hydric [] [] [X] [X] Unit Na Draina | Hor. O AB Soils II. Histose Histic I Sulfidio Probab Reduc Gleyed ame: ge Clas | Matrix Color 5YR 3/1 10R 4/3 Indicators ol Epipedon c Odor ble Aquatic Moist ing Conditions d or Low-Chroma | Mottle / 2nd M Color 10R 4/2 7.5YR 7/6 | Abundance Contro | ast Structure, decomposite Silt sions ganic % in Surface It Streaking in Local Hydric Soils in National Hydric Soexplain in remarks) | ayer | |
| Remark Soils Depth (in.) 1-0 0-16 Hydric [] [] [X] [X] Unit Na Drainae Remarks | Hor. O AB Soils II. Histose Histic I Sulfidie Probab Reduc Gleyee ame: ge Class | Matrix Color 5YR 3/1 10R 4/3 Indicators ol Epipedon c Odor ble Aquatic Moist ing Conditions d or Low-Chroma | Mottle / 2nd M Color 10R 4/2 7.5YR 7/6 Regime Colors | Abundance Contro | ast Structure, decomposite Silt sions ganic % in Surface It Streaking in Local Hydric Soils in National Hydric Soexplain in remarks) | ayer | |
| Remark Soils Depth (in.) 1-0 0-16 Hydric [] [] [X] [X] Unit Na Drainag Remarks | Hor. O AB Soils II. Histose Histic I Sulfidie Probak Reduc Gleyec ame: ge Class | Matrix Color 5YR 3/1 10R 4/3 Indicators ol Epipedon c Odor ble Aquatic Moist ing Conditions d or Low-Chroma ss: | Mottle / 2nd M Color 10R 4/2 7.5YR 7/6 Regime Colors | Abundance Contro | ast Structure, decomposite Silt sions ganic % in Surface Les Streaking in Local Hydric Soils in National Hydric Soexplain in remarks) | List Dils List | |
| Remar Soils Depth (in.) 1-0 0-16 Hydric [] [] [X] [X] Unit Na Drainag Remarks Wetlan [X] Hyd | Hor. O AB Soils II. Histose Histic I Sulfidie Probak Reduc Gleyed ame: ge Class s Id De drophy | Matrix Color 5YR 3/1 10R 4/3 Indicators ol Epipedon c Odor ble Aquatic Moist ing Conditions d or Low-Chroma ss: | Mottle / 2nd M Color 10R 4/2 7.5YR 7/6 Regime Colors | Abundance Contro | ast Structure, decomposite Silt sions ganic % in Surface It Streaking in Local Hydric Soils in National Hydric Soexplain in remarks) | Layer List bils List | |
| Remark Soils Depth (in.) 1-0 0-16 Hydric [] [] [X] [X] Unit Na Drainae Remarks Wetlan [X] Hyd [X] Hyd [X] Hyd | Hor. O AB Soils II. Histose Histic I Sulfidie Probak Reduc Gleyec ame: ge Class drophy dric So | Matrix Color 5YR 3/1 10R 4/3 Indicators ol Epipedon c Odor ble Aquatic Moist ing Conditions d or Low-Chroma ss: | Mottle / 2nd N Color 10R 4/2 7.5YR 7/6 Regime Colors | Abundance Contro | ast Structure, decomposite Silt sions ganic % in Surface Les Streaking in Local Hydric Soils in National Hydric Soexplain in remarks) | Layer List bils List | |
| Remark Soils Depth (in.) 1-0 0-16 Hydric [] [] [X] [X] Unit Na Drainae Remarks Wetlan [X] Hyd [X] Hyd [X] Hyd | Hor. O AB Soils II. Histose Histic I Sulfidie Probat Reduc Gleyed ame: ge Class s Id De drophy dric So etland H | Matrix Color 5YR 3/1 10R 4/3 Indicators ol Epipedon c Odor ble Aquatic Moist ing Conditions d or Low-Chroma ss: | Mottle / 2nd N Color 10R 4/2 7.5YR 7/6 Regime Colors | Abundance Contro | ast Structure, decomposite Silt sions ganic % in Surface Les Streaking in Local Hydric Soils in National Hydric Soexplain in remarks) | Layer List bils List | |

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [X] Have vegetation, soils, or hydrology been distu | urbed? | Date: October 18, 2004 County: Sullivan State: New York Community ID: W31 Station ID: Transect 31.1 | | |
|--|---|---|---|--|
| [] Is the area a potential problem area? | | Plot ID: Upland | | |
| Vegetation | | | | |
| Dominant Species | Common Name | % Cover | Indicator | |
| X Golf Coarse Herbaceous | | | | |
| X Euonymus americanus Juniperus virginiana Shrub | Strawberry-Bush,American Cedar,Eastern Red | | FAC FACU | |
| Vaccinium angustifolium | Blueberry,Lowbush | | FACU- | |
| <u>Tree</u> Pinus strobus | Pine, Eastern White | | FACU | |
| % Species that are OBL, FACW, or FAC (except F Remarks | | wardin Classification: | | |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicato [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | [] Oxidized root [] Water-stained [] Local soil sun [] FAC-Neutral t [] Other (explain | channels I leaves vey data est | |
| Soils | | | | |
| Depth Hor. Matrix Mottle / 2nd Mo | | exture, | | |
| (in.) Color Color 0-20 AB 5YR 5/3 5YR 5/8 5YR 5/4 | Abundance Contrast Si common Si few | ructure, etc. It | | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: | [] Concretions [] High Organic % in S [] Organic Streaking [] Listed on Local Hydi [] Listed on National H [] Other (explain in ren Taxonomy: [] Field Observations mat | ric Soils List ydric Soils List narks) | | |
| Remarks Filled Area | | | | |
| Wetland Determination | | | | |
| [] Hydrophytic Vegetation Present[] Hydric Soils Present[] Wetland Hydrology PresentRemarksUpland | [] This Data Point is a | Wetland | | |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W31(wetland)

| Applica Investig [X] Do [] Hav [] Is th | nt/Owner gator: E normal ve veget ne area | Concord Resort, Ter: Concord Assethan Stewart circumstances existation, soils, or hydropotential problem | st on the site? rology been disturbe | d? | | (((| Date: October 18, 2004 County: Sullivan State: New York Community ID: W31 Station ID: Transect 31.1 Plot ID: Wetland | |
|---|---|---|---|--|--|----------------------------|--|--------------------------------------|
| Vegeta | | pecies | | Commo | n Name | | % Cover | Indicator |
| Herbac | | pecies | | Oomino | ii italiic | | 70 00 VEI | maicator |
| Shrub | Α | ster umbellatus | | Aster,Fla | at-Top White | | | FACW |
| Tree | V | accinium amoenui | n | Blueberi | y,Highbush | | | FACW |
| X | P | cer rubrum Pinus strobus Betula alba | | Maple,R Pine,Eas Birch,Wl | stern White | | | FAC FACU FAC+ |
| % Spec Remark | ies that | | or FAC (except FAC | | ille | Cowa | ardin Classification: | TACT |
| Hydro | logy | | Prir | mary Wetlan | d Hydrology Indi | licators | Secondary Hydrology | / Indicators |
| Field (| [] Stre [] Aeri [] Oth Observa Depth o | Data (describe in eam, Lake, or Tide ial Photograph er (describe in rem ations: of Surface Water(in o Free Water in Pi o Saturated Soils(i | remarks) [Gage [Inarks) [Inarks) [Inarks] | X] Inundate X] Saturate X] Water m Drift lines Sedimen | d d in upper 12 inc arks s | ches | [] Oxidized root of [X] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | channels leaves ey data est |
| Rema | rks | | | | | | | |
| Soils | | | | | | | | |
| Depth (in.) | Hor. | Matrix Color | Mottle / 2nd Mottle | Abundance | Contrast | Text | ure, cture, etc. | |
| 2-0 | 0 | GLEY2 2.5/5PB | 20101 | Abundance | Contrast | Siruc | olule, elo. | |
| 0-12 | Α | 5YR 4/2 | | | | Silt | | |
| 12-18 | В | 5YR 5/3 | | common few | | Loan | ny Sand | |
| [] [x] [x] | Histoso Histic E Sulfidio Probab Reduci | Epipedon | | [] [] [] [] | Concretions High Organic % Organic Streakil Listed on Local Listed on Natior Other (explain in | ing Hydric∹ nal Hydi | Soils List ric Soils List | |
| Unit N | lame: | | | Taxon | omv: | | | |
| | age Clas | SS: | | | eld Observations | match | map | |
| Remark | (S | | | | | | | |
| Wetla | nd De | termination | | | | | | |
| [X] H | dric So etland F | tic Vegetation Pres ils Present Hydrology Present | sent | [X] | This Data Point | is a We | etland | |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination** Wetland Data Point: W31 Project/Site: Concord Resort, Thompson, NY Date: October 18, 2004 Applicant/Owner: Concord Associates, LP County: Sullivan Investigator: Ethan Stewart State: New York [X] Do normal circumstances exist on the site? Community ID: W31 [] Have vegetation, soils, or hydrology been disturbed? Station ID: Transect 31.2 [] Is the area a potential problem area? Plot ID: Upland Vegetation **Dominant Species Common Name** % Cover Indicator **Herbaceous** Sphagnum sp. <u>Tree</u> Tsuga canadensis Hemlock, Eastern **FACU** % Species that are OBL, FACW, or FAC (except FAC-): 0 Cowardin Classification: Remarks Hydrology Primary Wetland Hydrology Indicators Secondary Hydrology Indicators [] Recorded Data (describe in remarks) [] Inundated [] Oxidized root channels [] Stream, Lake, or Tide Gage] Saturated in upper 12 inches [] Water-stained leaves [] Aerial Photograph [] Water marks [] Local soil survey data [] Other (describe in remarks) [] Drift lines [] FAC-Neutral test [] Sediment deposits [] Other (explain in remarks) Field Observations: [] Drainage patterns in wetlands Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks Soils Depth Mottle / 2nd Mottle Hor. Matrix Texture, Color (in.) Color Abundance Contrast Structure, etc. 0 4-0 5YR 3/1

0-4 5YR 3/2 5YR 2.5/1 Silt Α common В 4-8 2.5YR 4/3 2.5YR 4/1 few Silt Hydric Soils Indicators [] Histosol [] Concretions [] Histic Epipedon [] High Organic % in Surface Layer [] Sulfidic Odor [] Organic Streaking [] Listed on Local Hydric Soils List [] Probable Aquatic Moist Regime [] Reducing Conditions [] Listed on National Hydric Soils List [] Gleyed or Low-Chroma Colors [] Other (explain in remarks) Unit Name: Taxonomy: Drainage Class: [] Field Observations match map Remarks

Wetland Determination

[] Hydrophytic Vegetation Present [] This Data Point is a Wetland
[] Hydric Soils Present
[] Wetland Hydrology Present
Remarks
Upland

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination** Wetland Data Point: W31(wetland)

| - | Site: C | oncord Resort, T | hompson, NY | | Date: | October 18, 2004 | |
|--|--|--|------------------------|--|---|---------------------|----------------|
| Applicant | | er: Concord Ass | • | | | y: Sullivan | |
| | | than Stewart | | | State: | New York | |
| [X] Do no | ormal c | circumstances exis | st on the site? | | Comn | nunity ID: W31 | |
| [] Have | vegeta | ation, soils, or hyd | rology been dis | turbed? | Statio | n ID: Transect 31.2 | |
| | _ | a potential problen | | | Plot II | D: Wetland | |
| Vegetat | tion | | | | | | |
| Dominar | | pecies | | Common Nar | ne | % Cover | r Indicator |
| Herbace | | | | | | | |
| X | As | ster umbellatus | | Aster,Flat-Top | White | | FACW |
| | | phagnum sp. | | 5 N V | | | E4.0 |
| Troo | 11 | helypteris novebor | racensis | Fern,New Yor | K | | FAC |
| <u>Tree</u> X | T: | suga canadensis | | Hemlock,East | ern | | FACU |
| | | cer rubrum | | Maple,Red | | | FAC |
| | | agus grandifolia | | Beech | | | FAC+ |
| | | are OBL, FACW, | or FAC (except | FAC-): 50 | Cowardin | Classification: | |
| Remarks | 3 | | | | | | |
| Hydrolo | oav | | | | | | |
| • | | - | | Primary Wetland Hyd | rology Indicators | Secondary Hydrolo | |
| | | Data (describe in | | [] Inundated | | [] Oxidized roo | |
| | | am, Lake, or Tide | Gage | [X] Saturated in up | oper 12 inches | [X] Water-staine | |
| | | al Photograph | | [X] Water marks | | [] Local soil su | • |
| [|] Othe | er (describe in rem | narks) | [X] Drift lines | | [] FAC-Neutral | |
| Field Ol | hserva | itions: | | [] Sediment depo | osits | [] Other (expla | in in remarks) |
| | | of Surface Water(ir |)· 0 | [X] Drainage patte | rns in wetlands | | |
| | | o Free Water in Pi | | | | | |
| | • | o Saturated Soils(i | ` ' | | | | |
| | opui id | o Cataratea Consti | <i>,</i> . 0 | | | | |
| Remark | KS | | | | | | |
| Soils | | | | | | | |
| | Hor | Motrix | Mottle / 2nd N | Acttle. | Toyturo | | |
| Depth (in.) | | Matrix Color | Mottle / 2nd N | | Texture, ntrast Structure, | etc | |
| 3-0 | | GLEY2 2.5/5PB | 00101 | Abdituation Ooi | iliasi Oliaciaic, | Cio. | |
| 0-6 | A | 5YR 3/1 | | | | | |
| 6-12 | В | 10YR 6/2 | 10YR 7/4 | | Silt | | |
| · · - | _ | | | many | | | |
| | | | 10YR 8/8 | many many | Oiit | | |
| Hudrio 9 | Soils Ir | ndicators | | many many | | | |
| - | | ndicators | | many | | | |
| [] | Histoso | ol | | many [] Conc | retions | 0.01 | |
| [] [] | Histoso Histic E | ol Epipedon | | many [] Conc | retions Organic % in Surface L | _ayer | |
| [] - [] | Histoso Histic E Sulfidic | ol Epipedon c Odor | 10YR 8/8 | many [] Conc [] High [] Orgai | retions Organic % in Surface L nic Streaking | | |
| | Histoso Histic E Sulfidic Probab | ol Epipedon : Odor ole Aquatic Moist F | 10YR 8/8 | many [] Conc [] High [] Orgai [] Listed | retions Organic % in Surface L nic Streaking d on Local Hydric Soils | List | |
| | Histoso Histic E Sulfidic Probab Reduci | ol Epipedon c Odor ole Aquatic Moist F ing Conditions | 10YR 8/8 | many [] Conc [] High [] Organ [] Listed [] Listed | retions Organic % in Surface L nic Streaking d on Local Hydric Soils d on National Hydric So | List | |
| | Histoso Histic E Sulfidic Probab Reduci | ol Epipedon : Odor ole Aquatic Moist F | 10YR 8/8 | many [] Conc [] High [] Organ [] Listed [] Listed | retions Organic % in Surface L nic Streaking d on Local Hydric Soils | List | |
| | Histoso Histic E Sulfidic Probab Reducii Gleyed | ol Epipedon c Odor ole Aquatic Moist F ing Conditions | 10YR 8/8 | many [] Conc [] High [] Orgal [] Listed [] Listed [] Other | retions Organic % in Surface L nic Streaking d on Local Hydric Soils d on National Hydric So | List | |
| [] H [] S [] F [] C Unit Na | Histoso Histic E Sulfidic Probab Reducii Gleyed ame: | ol Epipedon c Odor ole Aquatic Moist Fing Conditions I or Low-Chroma C | 10YR 8/8 | many [] Conc [] High [] Orgal [] Listed [] Listed [] Other Taxonomy: | retions Organic % in Surface L nic Streaking d on Local Hydric Soils d on National Hydric So r (explain in remarks) | List | |
| [] | Histoso Histic E Sulfidic Probab Reducii Gleyed ame: ge Clas | ol Epipedon c Odor ole Aquatic Moist Fing Conditions I or Low-Chroma C | 10YR 8/8 | many [] Conc [] High [] Orgal [] Listed [] Listed [] Other Taxonomy: | retions Organic % in Surface L nic Streaking d on Local Hydric Soils d on National Hydric So | List | |
| [] H [] S [] F [] C Unit Na | Histoso Histic E Sulfidic Probab Reducii Gleyed ame: ge Clas | ol Epipedon c Odor ole Aquatic Moist Fing Conditions I or Low-Chroma C | 10YR 8/8 | many [] Conc [] High [] Orgal [] Listed [] Listed [] Other Taxonomy: | retions Organic % in Surface L nic Streaking d on Local Hydric Soils d on National Hydric So r (explain in remarks) | List | |
| [] H [] S [] F [] C Unit Na Drainag Remarks | Histoso Histic E Sulfidic Probab Reducii Gleyed ame: ge Clas | ol Epipedon c Odor ole Aquatic Moist Fing Conditions I or Low-Chroma C | 10YR 8/8 | many [] Conc [] High [] Orgal [] Listed [] Listed [] Other Taxonomy: | retions Organic % in Surface L nic Streaking d on Local Hydric Soils d on National Hydric So r (explain in remarks) | List | |
| [] H [] S [] F [] C Unit Na Drainag Remarks | Histoso Histic E Sulfidic Probab Reducii Gleyed ame: ge Clas | ol Epipedon c Odor ole Aquatic Moist R ing Conditions I or Low-Chroma C | 10YR 8/8 Regime Colors | many [] Conc [] High [] Organ [] Listed [] Other Taxonomy: [] Field Ob | retions Organic % in Surface L nic Streaking d on Local Hydric Soils d on National Hydric So r (explain in remarks) | List bils List | |
| [] F [] S [] F [] C Unit Na Drainag Remarks Wetland [X] Hyd | Histoso Histic E Sulfidic Probab Reducii Gleyed ame: ge Clas d De' drophyt | ol Epipedon c Odor ole Aquatic Moist Fing Conditions I or Low-Chroma Coss: | 10YR 8/8 Regime Colors | many [] Conc [] High [] Organ [] Listed [] Other Taxonomy: [] Field Ob | retions Organic % in Surface L nic Streaking d on Local Hydric Soils d on National Hydric So r (explain in remarks) | List bils List | |
| [] F [] S [] F [] C Unit Na Drainag Remarks Wetland [X] Hyd [X] Hyd | Histoso Histic E Sulfidic Probab Reduci Gleyed ame: ge Clas d De drophyt dric Soi | ol Epipedon c Odor ole Aquatic Moist Fing Conditions I or Low-Chroma Coss: | 10YR 8/8 Regime Colors | many [] Conc [] High [] Organ [] Listed [] Other Taxonomy: [] Field Ob | retions Organic % in Surface L nic Streaking d on Local Hydric Soils d on National Hydric So r (explain in remarks) | List bils List | |

| Investigator: [X] Do norm [] Have veg [] Is the are | Concord Resort, Towner: Concord Assort Ethan Stewart al circumstances exist getation, soils, or hydea a potential problem | st on the site? | 1? | | Date: Octobe County: Sull State: New \ Community ID Station ID: Ti Plot ID: Upla | ivan /ork 0: W30 ransect 30.1 | |
|---|---|--|---|---|---|--|--------------------------------------|
| Vegetatio Dominant | N Species | | Common Na | ame | | % Cover | Indicator |
| <u>Herbaceous</u> | - | | oommon no | | | 70 GGV C1 | maioatoi |
| <u>Tree</u> X | Acer rubrum Fagus grandifolia | | Maple,Red Beech | | | | FAC FAC+ |
| % Species the Remarks | nat are OBL, FACW, | or FAC (except FAC- | | Cow | ardin Classific | ation: | |
| [] S [] A [] C Field Obse Dept | led Data (describe in Stream, Lake, or Tide Aerial Photograph Other (describe in rem rvations: h of Surface Water(in h to Free Water in Pit | remarks) [Gage [narks) [n.): 0 [(in.): >24 |] Inundated] Saturated in (] Water marks] Drift lines] Sediment dep | upper 12 inches posits terns in wetlands | [] [] [] | dary Hydrology Oxidized root of Water-stained Local soil surv FAC-Neutral to Other (explain | channels leaves ey data est |
| Dept | h to Saturated Soils(i | n.): >24 | | | | | |
| Dept Remarks | h to Saturated Soils(i | n.): >24 | | | | | |
| Dept Remarks Soils | h to Saturated Soils(i | n.): >24 Mottle / 2nd Mottle | | Tex | ture. | | |
| Remarks Soils Depth Ho (in.) | or. Matrix Color | Mottle / 2nd Mottle | Abundance C | ontrast Stru | cture, etc. | | |
| Dept Remarks Soils Depth Ho | or. Matrix Color 5YR 3/1 | Mottle / 2nd Mottle Color | Abundance C | ontrast Stru | | /es | |
| Depti Remarks Soils Depth Ho (in.) 2-0 O 0-10 AE Hydric Soil [] Histi [] Sulfi [] Prob [] Red | or. Matrix Color 5YR 3/1 3 5YR 3/2 ds Indicators | Mottle / 2nd Mottle Color A 5YR 2.5/1 | few [] Con [] High [] Org. [] Liste [] Liste | ontrast Stru dec | cture, etc. composed leaver face Layer Soils List lric Soils List | /es | |
| Dept Remarks Soils Depth Ho (in.) 2-0 O 0-10 AE Hydric Soil [] Histo [] Sulfi [] Prot [] Red [] Gley Unit Name: | or. Matrix Color 5YR 3/1 3 5YR 3/2 4s Indicators osol ic Epipedon idic Odor bable Aquatic Moist R ducing Conditions yed or Low-Chroma C | Mottle / 2nd Mottle Color A 5YR 2.5/1 | [] Con [] High [] Org. [] Liste [] Othe Taxonomy | cretions n Organic % in Suranic Streaking ed on Local Hydric ed on National Hydrorer (explain in rema | cture, etc. composed leaver face Layer Soils List Iric Soils List rks) | /es | |
| Depti Remarks Soils Depth Ho (in.) 2-0 O 0-10 AE Hydric Soil [] Histo [] Sulfi [] Prob [] Red [] Gley | or. Matrix Color 5YR 3/1 3 5YR 3/2 4s Indicators osol ic Epipedon idic Odor bable Aquatic Moist R ducing Conditions yed or Low-Chroma C | Mottle / 2nd Mottle Color A 5YR 2.5/1 | [] Con [] High [] Org. [] Liste [] Othe Taxonomy | cretions n Organic % in Suranic Streaking ed on Local Hydric ed on National Hyder (explain in rema | cture, etc. composed leaver face Layer Soils List Iric Soils List rks) | res | |

Job Number: 100309 **Data Form Routine Wetland Determination**

City: Thompson

Wetland Data Point: W30(wetland) Project/Site: Concord Resort, Thompson, NY Date: October 18, 2004 Applicant/Owner: Concord Associates, LP County: Sullivan Investigator: Ethan Stewart State: New York [X] Do normal circumstances exist on the site? Community ID: W31 [] Have vegetation, soils, or hydrology been disturbed? Station ID: Transect 30.1 [] Is the area a potential problem area? Plot ID: Wetland Vegetation Dominant Species **Common Name** % Cover Indicator **Herbaceous** Athyrium thelypteroides Fern, Silvery Lady FAC Sphagnum sp. Thelypteris noveboracensis Fern, New York FAC <u>Tree</u> Maple.Red FAC Acer rubrum Fagus grandifolia Beech FAC+ % Species that are OBL, FACW, or FAC (except FAC-): Cowardin Classification: Remarks Hydrology Primary Wetland Hydrology Indicators Secondary Hydrology Indicators [] Recorded Data (describe in remarks) [X] Inundated [] Oxidized root channels [] Stream, Lake, or Tide Gage [X] Saturated in upper 12 inches [X] Water-stained leaves [] Aerial Photograph [X] Water marks [] Local soil survey data [] Other (describe in remarks) [X] Drift lines [] FAC-Neutral test [X] Sediment deposits [] Other (explain in remarks) Field Observations: [X] Drainage patterns in wetlands Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): 0 Depth to Saturated Soils(in.): 0 Remarks Soils Depth Hor. Matrix Mottle / 2nd Mottle Texture, Color Color Abundance Contrast Structure, etc.

| 6-0 | 0 | GLEY2 2.5/5PB | | | | | | |
|---------------------|----------|----------------------|-----------|-------------------------------------|----------------------------------|--|--|--|
| 8-0 | Α | 2.5YR 5/1 | 7.5YR 6/8 | common | Silt | | | |
| | | | 7.5YR 6/1 | few | | | | |
| Hydri | c Soils | Indicators | | | | | | |
| [] Histosol | | | | [] Con | cretions | | | |
| [] Histic Epipedon | | | | [] High Organic % in Surface Layer | | | | |
| [X |] Sulfid | ic Odor | | [] Organic Streaking | | | | |
| [X |] Proba | able Aquatic Moist F | Regime | [] Liste | ed on Local Hydric Soils List | | | |
| [X |] Redu | cing Conditions | | [] Liste | ed on National Hydric Soils List | | | |
| [X |] Gleye | ed or Low-Chroma (| Colors | Other (explain in remarks) | | | | |
| Unit N | Name: | | | Taxonomy | | | | |
| Drain | age Cla | ass: | | [] Field C | bservations match map | | | |
| | | | | | | | | |

Wetland Determination

[X] Hydrophytic Vegetation Present

[X] Hydric Soils Present

[X] Wetland Hydrology Present

Remarks

Remarks

[X] This Data Point is a Wetland

| Applicant/Ow Investigator: [X] Do norma [] Have veg [] Is the are | Concord Resort, T yner: Concord Asso Ethan Stewart al circumstances exis getation, soils, or hydi as a potential problem | ociates, LP It on the site? rology been distr | urbed? | | Cou State Com State | e: October 18, 2004 nty: Sullivan e: New York nmunity ID: W27 ion ID: Transect 27.1 ID: Upland | |
|---|---|---|---|---------------------------|---|---|---------------------------|
| Vegetation Dominant | N Species | | Commo | n Name | | % Cover | Indicator |
| Herbaceous | - | | Commo | - realise | | 70 00101 | maioator |
| X | Thelypteris novebor Sphagnum sp. | acensis | Fern,Nev | v York | | | FAC |
| <u>Tree</u> X | Acer rubrum | | Maple,Re | ed | | | FAC |
| | Fagus grandifolia | | Beech | | | | FAC+ |
| % Species th Remarks | nat are OBL, FACW, o | or FAC (except F | FAC-): 100 | | Cowardir | n Classification: | |
| Hydrology | / | | Primary Wetland | d Hvdrology Ind | icators | Secondary Hydrology | v Indicators |
| []S []A []C Field Obsel Deptl Deptl | ed Data (describe in tream, Lake, or Tide erial Photograph other (describe in removations: In of Surface Water (in the to Saturated Soils(ii) | Gage arks) .): 0 (in.): >24 | [] Water ma [] Drift lines [] Sediment | l in upper 12 ind arks | | [] Oxidized root of [] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | leaves rey data est |
| Remarks | | | | | | | |
| Soils | | | | | _ | | |
| Depth Ho (in.) | r. Matrix Color | Mottle / 2nd M Color | ottle Abundance | Contrast | Texture, Structure | | |
| 3-0 O | GLEY2 2.5/5PB | 00101 | Abditablec | Contrast | Otractar | o, oto. | |
| 0-6 A | 2.5YR 4/3 | 2.5YR 3/1 | few | | Silt Loar | m | |
| 6-14 B | 2.5YR 4/8 | 2.5YR 3/6 | few | | Silt Loar | n | |
| [] Sulfi [] Prob [] Red [] Gley Unit Name: | osol c Epipedon dic Odor pable Aquatic Moist R ucing Conditions red or Low-Chroma C | • | [] [] [] [] Taxono | • | ng Hydric Soil nal Hydric S n remarks) | s List Soils List | |
| Drainage C | lass: | | [] Fie | ld Observations | match ma | р | |
| Remarks | | | | | | | |
| Wetland D | Determination | | | | | | |
| [] Hydric S | hytic Vegetation Pres Soils Present d Hydrology Present | ent | [] | This Data Point | is a Wetlar | nd | |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W27(wetland)

| Project/Site | : Concord Resort, | Thompson, NY | | D | Pate: October 18, 2004 | |
|------------------|--------------------------------------|-------------------------|--------------------------------------|----------|---------------------------|----------------|
| • | wner: Concord Ass | • | | | County: Sullivan | |
| | r: Ethan Stewart | , | | | state: New York | |
| [X] Do norr | nal circumstances exi | st on the site? | | С | Community ID: W27 | |
| [] Have ve | egetation, soils, or hyd | drology been disturbed? | • | S | station ID: Transect 27.1 | |
| [] Is the a | rea a potential proble | m area? | | Р | lot ID: Wetland | |
| Vegetation | on | | | | | |
| Dominant | Species | | Common Name | | % Cover | Indicator |
| <u>Herbaceοι</u> | | | Actor Flat Ton White | | | EAC\\\ |
| Х | Aster umbellatus Carex granularis | | Aster,Flat-Top White Sedge,Meadow | | | FACW FACW+ |
| | Athyrium thelyptero | oides | Fern, Silvery Lady | | | FAC |
| | Thelypteris novebo | | Fern, New York | | | FAC |
| <u>Tree</u> | | | | | | 540 |
| Х | Acer rubrum Fagus grandifolia | | Maple,Red Beech | | | FAC FAC+ |
| % Species | | or FAC (except FAC-): | | Cowa | rdin Classification: | TACT |
| Remarks | , | , | | | | |
| | | | | | | |
| Hydrolog | ЗУ | Prima | ry Wetland Hydrology Indi | licators | Secondary Hydrology | / Indicators |
| []Recor | ded Data (describe in | | Inundated | | Oxidized root of | |
| | Stream, Lake, or Tide | , . | Saturated in upper 12 inc | ches | [X] Water-stained | |
| | Aerial Photograph | | Water marks | 51100 | [] Local soil surv | |
| | Other (describe in rer | | Drift lines | | FAC-Neutral te | • |
| | Other (describe in rei | · - | Sediment deposits | | Other (explain | |
| Field Obs | ervations: | - | Drainage patterns in wetl | lands | [] Other (explain | iii ieiiiaiks) |
| Dep | oth of Surface Water(i | n.): 0 | j Dramage patterns in weti | iaiius | | |
| Dep | oth to Free Water in P | it(in.): >24 | | | | |
| Dep | oth to Saturated Soils(| in.): 3 | | | | |
| Remarks | | | | | | |
| rtomanto | | | | | | |
| Soils | | | | | | |
| Depth H | lor. Matrix | Mottle / 2nd Mottle | | Textu | ıre. | |
| (in.) | Color | | undance Contrast | | ture, etc. | |
| 0-18 A | B 5YR 3/2 | 5YR 4/1 fe | W | Silty (| Clay Loam | |
| | | 2.5YR 5/8 cc | ommon | | | |
| Hydric Sc | ils Indicators | | | | | |
| His | | | [] Concretions | | | |
| | stic Epipedon | | [] High Organic % | in Surfa | ace Laver | |
| | Ifidic Odor | | [] Organic Streakii | | ace Layer | |
| | obable Aquatic Moist I | Pagima | [] Listed on Local | - | Soile Liet | |
| | ducing Conditions | \egiiiie | [] Listed on Nation | , | | |
| | - | Calara | | - | | |
| [] G | eyed or Low-Chroma | 501018 | [] Other (explain in | n reman | KS) | |
| Unit Nam | e: | | Taxonomy: | | | |
| Drainage | Class: | | [] Field Observations | match i | map | |
| Remarks | | | | | | |
| | | | | | | |
| Wetland | Determination | | | | | |
| [X] Hydro | phytic Vegetation Pre | sent | [X] This Data Point | is a We | tland | |
| [X] Hydrid | Soils Present | | | | | |
| [X] Wetla | nd Hydrology Present | | | | | |
| Remarks | | | | | | |
| | | | | | | |

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been dis [] Is the area a potential problem area? Vegetation Dominant Species | | | Date: October 18, 2004 County: Sullivan State: New York Community ID: W27 station ID: Transect 27.2 Plot ID: Upland | | | | |
|--|--|----------------------------|---|--|---|---|--------------------------------------|
| | | | C | Nama | | 0/ 6 | lu dia atau |
| <u>Herbaceous</u> X Ai Si | thyrium thelypteroid ohagnum sp. | des | Common Fern,Silve | | | % Cover | FAC |
| | cer rubrum are OBL, FACW, o | or FAC (except F | Maple,Red FAC-): 100 | | vardin Classi | fication: | FAC |
| [] Stre [] Aeri [] Othe Field Observa Depth o Depth to | Data (describe in r am, Lake, or Tide (al Photograph er (describe in rema tions: f Surface Water(in. o Free Water in Pit(o Saturated Soils(in | Gage arks)): 0 (in.): >24 | [] Inundated [] Saturated [] Water mar [] Drift lines [] Sediment | |]]] | ondary Hydrology] Oxidized root of the control of | channels leaves ey data est |
| Soils | | | | | | | |
| (in.) 2-0 O | Matrix Color GLEY2 2.5/5PB | Mottle / 2nd M Color | Abundance | Contrast Str | xture, ucture, etc. | | |
| 0-4 A 4-16 B | 5YR 3/2 5YR 4/6 | 5YR 3/1 5YR 4/3 | few few | Sil [.] Sil | | | |
| [] Reduci | ol Epipedon Odor Ie Aquatic Moist Re ng Conditions or Low-Chroma Ce | | [] [] C [] L [] C Taxonor | concretions ligh Organic % in Su lorganic Streaking listed on Local Hydri listed on National Hy lither (explain in rem liny: I Observations mate | c Soils List dric Soils Lis arks) | t | |
| Remarks | | | | | | | |
| [] Hydric Soi | ic Vegetation Prese | ent | τ[] | his Data Point is a \ | Vetland | | |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W27(wetland)

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been dist [] Is the area a potential problem area? Vegetation Dominant Species Herbaceous X Aster umbellatus Dichanthelium acuminatum | Common Name Aster,Flat-Top White Grass,Panic | Date: October 18, 2004 County: Sullivan State: New York Community ID: W27 Station ID: Transect 27.2 Plot ID: Wetland % Cover | Indicator FACW FAC |
|---|---|---|--|
| Athyrium thelypteroides Calamagrostis neglecta Sphagnum sp. Tree X Acer rubrum % Species that are OBL, FACW, or FAC (except leading) Remarks | Fern,Silvery Lady Reedgrass,Slimstem Maple,Red FAC-): 100 | Cowardin Classification: | FAC FACW |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): 5 Depth to Saturated Soils(in.): 3 Remarks | Primary Wetland Hydrology India [] Inundated [X] Saturated in upper 12 india [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in wetl | [] Oxidized root thes [X] Water-stained [] Local soil sur [] FAC-Neutral [] Other (explain | channels d leaves vey data test |
| Soils Depth (in.) Hor. Matrix Color Mottle / 2nd M Color 2-0 O 5YR 3/1 | ottle Abundance Contrast | Texture, Structure, etc. decomposed leaves | |
| 0-12 A 5YR 3/1 12-16 B 5YR 4/4 5YR 4/6 | common | Silt Loam Silt Loam | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [X] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [X] Gleyed or Low-Chroma Colors | [] Concretions [] High Organic % [] Organic Streaki [] Listed on Local [] Listed on Natior [] Other (explain in | in Surface Layer ng Hydric Soils List nal Hydric Soils List | |
| Unit Name: Drainage Class: | Taxonomy: [] Field Observations | match map | |
| Remarks | | | |
| Wetland Determination [X] Hydrophytic Vegetation Present [X] Hydric Soils Present [X] Wetland Hydrology Present Remarks | [X] This Data Point | is a Wetland | |

| Project/Site: Concord Resort, Thompson, Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site [] Have vegetation, soils, or hydrology beer [] Is the area a potential problem area? Vegetation Dominant Species Tree | e? n disturbed? Common Name | Date: October 18, 2004 County: Sullivan State: New York Community ID: W29 Station ID: Transect 29.1 Plot ID: Upland % Cover Indicator |
|--|---|--|
| X Acer rubrum Acer saccharum | Maple,Red Maple,Sugar | FAC FACU- |
| % Species that are OBL, FACW, or FAC (exc Remarks | | owardin Classification: |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicate [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetland | [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils Depth Hor. Matrix Mottle / 2 (in.) Color Color | | exture, Structure, etc. |
| 2-0 O 5YR 3/1 0-4 A 5YR 3/2 5YR 2.5/ 4-12 B 5YR 4/3 | 1 few S | Silt Silt |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors | [] Concretions [] High Organic % in S [] Organic Streaking [] Listed on Local Hyc [] Listed on National H | dric Soils List Hydric Soils List |
| Unit Name: Drainage Class: | Taxonomy: [] Field Observations ma | tch map |
| Remarks | | |
| Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a | Wetland |

Job Number: 100309 **Data Form Routine Wetland Determination**

City: Thompson Wetland Data Point: W29(wetland)

| Applicant/Owner: (Investigator: Ethar X) Do normal circuiting Have vegetation | mstances exist on the site i, soils, or hydrology been tential problem area? | ? disturbed? Common Name | Date: October 18, 2004 County: Sullivan State: New York Community ID: W29 Station ID: Transect 29.1 Plot ID: Wetland % Cover | Indicator |
|--|--|--|---|---|
| | capillaris Inum sp. | Sedge,Hair-Like | | FACW |
| | umbellatus | Aster,Flat-Top White | | FACW |
| X Acer r | | Maple,Red | | FAC |
| % Species that are of Remarks | OBL, FACW, or FAC (exc | ept FAC-): 100 (| Cowardin Classification: | |
| [] Stream, [] Aerial Ph [] Other (d Field Observations Depth of Sui Depth to Fre | escribe in remarks) | Primary Wetland Hydrology Indica [X] Inundated [X] Saturated in upper 12 inche [X] Water marks [X] Drift lines [] Sediment deposits [X] Drainage patterns in wetlan | [] Oxidized root ss [X] Water-stained [] Local soil surv [] FAC-Neutral tr [] Other (explain | channels l leaves vey data est |
| Soils | | | | |
| Depth (in.) Hor. Mat 3-0 O 5YR 0-5 A GLE | or Color R 3/1 EY1 3/N | Abundance Contrast | Texture, Structure, etc. | |
| Hydric Soils Indica [] Histosol [] Histic Epipe [X] Sulfidic Odo [X] Probable Ac [X] Reducing C | edon or quatic Moist Regime | [] Concretions [] High Organic % in [] Organic Streaking [] Listed on Local Hy [] Listed on National [] Other (explain in reference | Surface Layer rdric Soils List Hydric Soils List | |
| Unit Name: Drainage Class: | | Taxonomy: [] Field Observations m | atch map | |
| Remarks | | | | |
| Wetland Detern [X] Hydrophytic Veta [X] Hydric Soils Property [X] Wetland Hydromarks | egetation Present resent | [X] This Data Point is | a Wetland | |

| Applicant/Ow | Concord Resort, ovner: Concord Ass | • | | Date: October 18, 2004 County: Sullivan | |
|--|--|---|---|--|--|
| | Ethan Stewart al circumstances exi | st on the site? | | State: New York Community ID: W28 | |
| | | lrology been disturbed? | ? | Station ID: Transect 28.1 | |
| | ea a potential probler | • . | | Plot ID: Upland | |
| Vegetatio | n | | | | |
| Dominant | Species | | Common Name | % Cove | r Indicator |
| <u>Herbaceous</u> | <u>Sphagnum sp.</u> | | | | |
| <u>Tree</u> | орнаднат ор. | | | | |
| X | Tsuga canadensis Betula alleghaniens Fagus grandifolia | sis | Hemlock,Eastern Birch,Yellow Beech | | FACU FAC FAC+ |
| % Species th Remarks | | or FAC (except FAC-): | | Cowardin Classification: | |
| Hydrology | у | Prima | ary Wetland Hydrology Indica | ators Secondary Hydrold | pay Indicators |
| []S []A []C Field Obser Deptl Deptl | ed Data (describe in stream, Lake, or Tide serial Photograph other (describe in ren rvations: h of Surface Water(in h to Free Water in Pi h to Saturated Soils(| remarks) [Gage [narks) [n.): 0 t(in.): >24 |] Inundated] Saturated in upper 12 inch] Water marks] Drift lines] Sediment deposits] Drainage patterns in wetlar | [] Oxidized roc es [] Water-staine [] Local soil su [] FAC-Neutra [] Other (expla | ot channels ed leaves irvey data I test |
| Soils | | | | | |
| | or. Matrix | Mottle / 2nd Mottle | | Texture, | |
| (in.) | Color | Color Ab | oundance Contrast | Structure, etc. | |
| 3-0 O 0-5 A | 5YR 3/1 5YR 3/3 | 7.5YR 4/3 fe | •W | Silt | |
| [] Histo [] Histo [] Sulfi [] Prob [] Red | s Indicators psol c Epipedon dic Odor pable Aquatic Moist Fucing Conditions yed or Low-Chroma (| | [] Concretions [] High Organic % ir [] Organic Streaking [] Listed on Local H [] Listed on Nationa [] Other (explain in | g lydric Soils List al Hydric Soils List | |
| Unit Name: Drainage C | | | Taxonomy: [] Field Observations n | natch map | |
| Remarks Rock 8" | | | | | |
| | Determination | | | | |
| [] Hydrop [] Hydric S | hytic Vegetation Pre Soils Present d Hydrology Present | sent | [] This Data Point is | s a Wetland | |

Job Number: 100309 City: Thompson

Wetland Data Point: W28(wetland)

| Project | t/Site: (| Concord Resort, T | Thompson, NY | | | Date: | October 18, 2004 | |
|-------------------|------------------------|---|----------------------|--------------|-------------------------------|--------------|----------------------|---------------|
| Applica | ant/Own | er: Concord Ass | ociates, LP | | | Coun | ty: Sullivan | |
| Investi | gator: I | Ethan Stewart | | | | State | : New York | |
| [X] Do | normal | circumstances exis | st on the site? | | | Comr | munity ID: W28 | |
| [] Ha | ve vege | tation, soils, or hyd | Irology been distu | urbed? | | Statio | on ID: Transect 28.1 | |
| [X] Is t | he area | a potential problem | n area? | | | Plot I | D: Wetland | |
| Veget | ation | | | | | | | |
| | ant S | Species | | Comr | non Name | | % Cover | Indicator |
| | ceous | • | | | | | | |
| X | | Aster umbellatus | | | Flat-Top White | | | FACW |
| | | Carex granularis | 1.1. | | e,Meadow | | | FACW+ |
| | | Athyrium thelyptero | | , | Silvery Lady r,Eastern Red | | | FAC FACU |
| Tree | J | luniperus virginiana | 7 | Ceuai | ,Lasiem Neu | | | FACO |
| X | A | Acer rubrum | | Maple | ,Red | | | FAC |
| Χ | 7 | Suga canadensis | | | ock,Eastern | | | FACU |
| | | Betula alleghaniens | ris | | Yellow | | | FAC |
| 0/ 0 | | agus grandifolia | FAC / | Beech | 1 | Cowordin | Classification: | FAC+ |
| | | t are OBL, FACW, | or FAC (except i | -AC-): 66 | | Cowardin | Classification. | |
| Remar | KS | | | | | | | |
| | _ | | | | | | | |
| Hydro | ology | | | Primary Wetl | and Hydrology Indi | icators | Secondary Hydrolog | y Indicators |
| []R | ecordec | Data (describe in | remarks) | [X] Inunda | ated | | [] Oxidized root | channels |
| | | eam, Lake, or Tide | , | | ted in upper 12 inc | hes | [X] Water-stained | leaves |
| | | rial Photograph | J | [X] Water | | | [] Local soil sur | vev data |
| | | ner (describe in rem | narks) | Drift lir | | | [] FAC-Neutral t | • |
| | [] • | (46661126 1111611 | iai.io, | | ent deposits | | Other (explain | |
| Field | Observa | ations: | | | ige patterns in wetla | ands | [] Other (explain | i iii romanoj |
| | Depth of | of Surface Water(ir | n.): 2 | [X] Diame | ge patterns in wett | anas | | |
| | Depth t | to Free Water in Pi | t(in.): 3 | | | | | |
| | Depth t | to Saturated Soils(i | in.): 0 | | | | | |
| Rema | orko | | | | | | | |
| Kem | aiks | | | | | | | |
| Calla | | | | | | | | |
| Soils | | | | | | | | |
| Deptl | h Hor. | Matrix | Mottle / 2nd M | | | Texture, | | |
| (in.) | | Color | Color | Abundanc | e Contrast | Structure | , etc. | |
| 6-0 | 0 | GLEY2 2.5/5PB | OLEV4 4/N | | | 0111 | | |
| 0-14 | AB | GLEY1 5/N | GLEY1 4/N 5YR 6/8 | few | | Silt Loam | | |
| | | | 31K 0/0 | common | | | | |
| Hydr | ic Soils I | Indicators | | | | | | |
| [|] Histos | ol | | [|] Concretions | | | |
| [|] Histic | Epipedon | | [| X] High Organic % | in Surface | Layer | |
| [X | [] Sulfidi | c Odor | | [|] Organic Streakir | ng | | |
| [X | [] Probal | ble Aquatic Moist R | Regime |] |] Listed on Local I | Hydric Soils | List | |
| | | ing Conditions | • | | Listed on Nation | - | | |
| - | - | d or Low-Chroma C | Colors | | Other (explain in | - | | |
| | ,,- | | | _ | - , , | , | | |
| Unit I | Name: | | | Tax | onomy: | | | |
| Drain | age Cla | SS: | | [] | Field Observations | match map | | |
| Remar | ·ks | | | | | | | |
| Wetla | nd De | etermination | | | | | | |
| [X] H | lydric So Vetland I | rtic Vegetation Pres oils Present Hydrology Present | | [| X] This Data Point | is a Wetlan | d | |

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been distu [X] Is the area a potential problem area? | rbed? | Date: October 18, 2004 County: Sullivan State: New York Community ID: W25 Station ID: Transect 25.1 Plot ID: Upland | |
|--|---|---|---|
| Vegetation Dominant Species | Common Name | % Cover | Indicator |
| <u>Herbaceous</u> | | /0 COVE | |
| X Lycopodium dendroideum Thelypteris noveboracensis | Clubmoss,Tree-Like Fern,New York | | FACU FAC |
| Tree X Fagus grandifolia X Acer rubrum X Tsuga canadensis % Species that are OBL, FACW, or FAC (except FACW) | Beech Maple,Red Hemlock,Eastern | Cowardin Classification: | FAC+ FAC FACU |
| Remarks | AO-). 30 | Cowardin Classification. | |
| Hydrology | | | |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology India [] Inundated [] Saturated in upper 12 inci [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetla | [] Oxidized root hes [] Water-stained [] Local soil sun [] FAC-Neutral t [] Other (explain | channels I leaves vey data est |
| Soils | | | |
| Depth Hor. Matrix Mottle / 2nd Mo | ttle | Texture, | |
| (in.) Color Color 2-0 O 5YR 3/1 | Abundance Contrast | Structure, etc. | |
| 0-5 A 7.5YR 4/3 | | Silt | |
| 5-18 B 5YR 4/6 5YR 4/3 | few | Silt | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors | [] Concretions [] High Organic % [] Organic Streakir [] Listed on Local I [] Listed on Nation [] Other (explain in | ng Hydric Soils List al Hydric Soils List | |
| Unit Name: Drainage Class: | Taxonomy: [] Field Observations | match map | |
| Remarks | 1 1 1 1 2 2 2 2 3 1 2 4 1 1 1 1 | | |
| Wetland Determination | | | |
| [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point | is a Wetland | |

Job Number: **100309** City: **Thompson**

Wetland Data Point: W25(wetland)

| Project/ | Site: Concord Resor | t, Thompson, NY | | Date: October | 18, 2004 |
|-----------------|--|-------------------------|---------------------------------------|------------------------|----------------------------|
| | nt/Owner: Concord A | | | County: Sulliva | an |
| Investig | ator: Ethan Stewart | | | State: New Yo | rk |
| | normal circumstances e | exist on the site? | | Community ID: | W25 |
| | e vegetation, soils, or h | | turbed? | Station ID: Tran | |
| | e area a potential prob | | dibod. | Plot ID: Wetlan | |
| • • | | iom aroa: | | TIOUD. Wellan | <u>u</u> |
| Vegeta | | | | | |
| Domina | | | Common Name | | % Cover Indicator |
| <u>Herbac</u> | | | A - + | | FAC)A/ |
| Х | Aster umbellatus | | Aster,Flat-Top White Fern,New York | | FACW FAC |
| | Thelypteris novel Athyrium thelypte | | Fern,Silvery Lady | | FAC |
| Tree | Autynam uiciypic | noidos | 1 cm,onvery Lady | | TAO |
| X | Acer rubrum | | Maple,Red | | FAC |
| Χ | Tsuga canadens | is | Hemlock,Eastern | | FACU |
| | Betula alleghanie | | Birch, Yellow | | FAC |
| ~. ~ | Fagus grandifolia | | Beech | | FAC+ |
| | ies that are OBL, FAC\ | N, or FAC (except | FAC-): 66 | Cowardin Classificati | on: |
| Remark | S | | | | |
| | | | | | |
| Hydro | logy | | Drimon, Motor of Livering | diantora Oncord | and budgalaged ladic store |
| • | • | . , , | Primary Wetland Hydrology Ind | | ary Hydrology Indicators |
| | ecorded Data (describe | | [] Inundated | • • | xidized root channels |
| | [] Stream, Lake, or Ti | de Gage | [X] Saturated in upper 12 in | iches [X] W | ater-stained leaves |
| | [] Aerial Photograph | | [X] Water marks | [] Lo | ocal soil survey data |
| | [] Other (describe in r | emarks) | [X] Drift lines | []F/ | AC-Neutral test |
| F:-1.1.6 | No. a service Constant | | [] Sediment deposits | []0 | ther (explain in remarks) |
| | Observations: | | [X] Drainage patterns in we | tlands | |
| | Depth of Surface Wate | ` ' | [] | | |
| ļ | Depth to Free Water in | Pit(in.): >24 | | | |
| | Depth to Saturated Soi | ls(in.): 0 | | | |
| D | | | | | |
| Remai | rks | | | | |
| | | | | | |
| Soils | | | | | |
| Depth | Hor. Matrix | Mottle / 2nd N | Nottle | Texture, | |
| (in.) | Color | Color | Abundance Contrast | Structure, etc. | |
| 0-12 | A 5YR 3/1 | | | | |
| 12-18 | AB 2.5YR 3/3 | 5YR 6/8 | common | Silt | |
| | | 10R 3/2 | few | | |
| | 0 " 1 " 1 | | | | |
| | Soils Indicators | | | | |
| | Histosol | | [] Concretions | | |
| [] | Histic Epipedon | | [] High Organic % | 6 in Surface Layer | |
| [] | Sulfidic Odor | | [] Organic Streak | king | |
| [X] | Probable Aquatic Mois | st Regime | [] Listed on Loca | l Hydric Soils List | |
| | Reducing Conditions | · · | | onal Hydric Soils List | |
| | Gleyed or Low-Chrom | a Colors | [] Other (explain | - | |
| | Oloyou of Low Official | u 001010 | [] Guioi (explain | iii romantoj | |
| Unit N | ame: | | Taxonomy: | | |
| Draina | ige Class: | | [] Field Observation | s match map | |
| | | | | • | |
| Remark | S | | | | |
| | | | | | |
| Wetlar | nd Determinatio | n | | | · |
| [X] Hv | drophytic Vegetation P | resent | [X] This Data Poin | t is a Wetland | |
| | | 1000111 | [א] דוווס במנמ ד טווו | tio a vvoticilu | |
| | dric Soils Present | | | | |
| | etland Hydrology Prese | ent | | | |
| Remark | S | | | | |

| Applicant/O Investigator [X] Do norn [] Have ve [X] Is the an | : Concord Resort wner: Concord A: : Ethan Stewart nal circumstances e getation, soils, or h rea a potential problem | exist on the site? ydrology been dist | urbed? | | Cou Sta Cor Sta | e: October 18, 2004 unty: Sullivan te: New York mmunity ID: W25 tion ID: Transect 25.2 t ID: Upland | |
|--|--|--|-------------------|------------------|--------------------------|---|--------------|
| Vegetation | | | 0 | . N | | 0/ 0 | la d'antan |
| Dominant Herbaceou | Species | | Commoi | n Name | | % Cover | Indicator |
| X | Thelypteris novel Sphagnum sp. | ooracensis | Fern,Nev | v York | | | FAC |
| <u>Tree</u> X | Acer rubrum | | Maple,Re | ed | | | FAC |
| | Fagus grandifolia | | Beech | | | | FAC+ |
| % Species t Remarks | hat are OBL, FACV | V, or FAC (except | FAC-): 100 | | Coward | in Classification: | |
| Hydrolog | ıy | | Primary Wetland | d Hydroloav Inn | licators | Secondary Hydrolog | y Indicators |
| - | ded Data (describe | in remarks) | [] Inundated | | | [] Oxidized root | |
| | Stream, Lake, or Ti | • | | l in upper 12 in | ches | [] Water-stained | leaves |
| [] | Aerial Photograph | | [] Water ma | ırks | | [] Local soil surv | ey data |
| [] | Other (describe in r | emarks) | [] Drift lines | | | [] FAC-Neutral t | est |
| Field Obse | ervations: | | [] Sediment | • | | [] Other (explain | in remarks) |
| | th of Surface Water | r(in.): 0 | [] Drainage | patterns in wet | lands | | |
| | th to Free Water in | . , | | | | | |
| | th to Saturated Soil | | | | | | |
| Remarks | | | | | | | |
| Soils | | | | | | | |
| Depth H | or. Matrix | Mottle / 2nd M | lottle | | Texture | , | |
| <u>(in.)</u> | Color | Color | Abundance | Contrast | Structu | | |
| 2-0 O | | 5)/5 0/4 | , | | | posed leaves | |
| 0-4 A | | 5YR 3/1 | few | | Silt | | |
| 4-12 B | 5YR 4/4 | 5YR 4/3 | few | | Silt | | |
| Hydric So | ils Indicators | | | | | | |
| [] His | tosol | | [] | Concretions | | | |
| | tic Epipedon | | | High Organic % | | e Layer | |
| | fidic Odor | | | Organic Streak | - | | |
| | bable Aquatic Mois | t Regime | [] | Listed on Local | Hydric So | ils List | |
| | ducing Conditions | | [] | Listed on Natio | nal Hydric | Soils List | |
| [] Gle | yed or Low-Chroma | a Colors | [] | Other (explain i | n remarks |) | |
| Unit Name | : : | | Taxono | omy: | | | |
| Drainage | Class: | | | d Observations | s match ma | ар | |
| Remarks | | | | | | | |
| Wetland | Determinatio | n | | | | | |
| [] Hydro _[| ohytic Vegetation P Soils Present ad Hydrology Prese | resent | [] | This Data Point | t is a Wetla | and | |

Job Number: **100309** City: **Thompson**

Wetland Data Point: W25(wetland)

| Applicant/Ow Investigator: [X] Do norma [] Have veg [X] Is the are | Concord Resort, Towner: Concord Associated Stewart al circumstances exist getation, soils, or hydroa a potential problem | t on the site? ology been disturbe | d? | | Date: October 18, 2004 County: Sullivan State: New York Community ID: W25 Station ID: Transect 25.2 Plot ID: Wetland | |
|---|--|------------------------------------|---|--|--|---|
| Vegetation Dominant | N Species | | Common Name | | % Cover | Indicator |
| Herbaceous | - | | Common Name | | % Cover | muicator |
| X | Thelypteris novebora Juniperus virginiana Sphagnum sp. | | Fern,New York Cedar,Eastern Red | | | FAC FACU |
| Shrub | Athyrium thelypteroid | des | Fern,Silvery Lady | | | FAC |
| T | Vaccinium amoenun | 1 | Blueberry,Highbush | | | FACW |
| <u>Tree</u> X X | Fagus grandifolia Acer rubrum Pinus strobus | | Beech Maple,Red Pine,Eastern White | | | FAC+ FAC FACU |
| % Species th | nat are OBL, FACW, o | or FAC (except FAC | | Cov | wardin Classification: | FACO |
| Remarks | | | | | | |
| []S []A []C Field Obser Deptl Deptl | ed Data (describe in r stream, Lake, or Tide erial Photograph Other (describe in rem | emarks) | mary Wetland Hydrology X] Inundated X] Saturated in upper 12 X] Water marks X] Drift lines X] Sediment deposits X] Drainage patterns in v | 2 inches | [X] Oxidized root [X] Water-stained [] Local soil surv [] FAC-Neutral t [] Other (explain | channels I leaves vey data est |
| Soils | | | | | | |
| Depth Ho (in.) | r. Matrix Color | Mottle / 2nd Mottle | Abundance Contrast | | xture, ructure, etc. | |
| 1-0 O 0-14 A | GLEY2 2.5/5PB GLEY1 5/N | | many common | Silf | t Loam | |
| [] Sulfi [X] Prob [X] Red | | | [] Concretions [] High Organi [] Organic Stre [] Listed on Lo [] Listed on Na [] Other (expla | ic % in Su eaking ocal Hydri ational Hy | c Soils List /dric Soils List | |
| Unit Name: Drainage C | | | Taxonomy: [] Field Observati | ions mato | ch map | |
| Remarks | | | | | | |
| Wetland D | Determination | | | | | |
| [X] Hydrop [X] Hydric S | hytic Vegetation Pres Soils Present d Hydrology Present | ent | [X] This Data Po | oint is a V | Vetland | |

| Project/Site: Concord Resort, Thompson, N' Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [X] Have vegetation, soils, or hydrology been d [X] Is the area a potential problem area? | sturbed? | Date: October 18, 2004 County: Sullivan State: New York Community ID: W25 Station ID: Transect 25.3 Plot ID: Upland |
|--|---|--|
| Vegetation Dominant Species | Common Name | % Cover Indicator |
| Herbaceous X Athyrium thelypteroides Sphagnum sp. | Fern,Silvery Lady | FAC |
| Tree X Acer rubrum X Tsuga canadensis Pinus strobus % Species that are OBL, FACW, or FAC (except | Maple,Red Hemlock,Eastern Pine,Eastern White ot FAC-): 66 Cowa | FAC FACU FACU ardin Classification: |
| Remarks | | |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicators [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | Secondary Hydrology Indicators [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| Depth Hor. Matrix Mottle / 2nd (in.) Color Color | | ure, cture, etc. |
| 5-0 O 5YR 3/1 0-12 AB 5YR 4/4 5YR 5/3 5YR 4/6 | many Silt many | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: Remarks | [] Concretions [] High Organic % in Surface [] Organic Streaking [] Listed on Local Hydric [] Listed on National Hyd [] Other (explain in remains and the content of | Soils List Iric Soils List rks) |
| | | |
| Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a W | etland |

Job Number: 100309 **Data Form Routine Wetland Determination**

City: Thompson

Wetland Data Point: W25(wetland)

| Applicant/C Investigato [X] Do norr [] Have v [] Is the a | e: Concord Resort, Dwner: Concord Ass r: Ethan Stewart mal circumstances exi egetation, soils, or hyd irea a potential proble | st on the site? | urbed? | Cour State Com Stati | : October 18, 2004 http: Sullivan http: New York munity ID: W25 http: Transect 25.3 http: Wetland | |
|---|--|------------------------------------|--|-------------------------------|---|--|
| Vegetation Dominant | | | Common Name | | % Cover | Indicator |
| Herbaceou | | | Common Nume | | 70 00101 | muloutor |
| X Shrub | Phragmites austral Typha angustifolia | is | Reed,Common Cattail,Narrow-Le | eaf | | FACW OBL |
| <u>Om ub</u> | Vaccinium amoenu | ım | Blueberry, Highbu | ısh | | FACW |
| <u>Tree</u> X X | Pinus strobus Fagus grandifolia Betula alba | | Pine,Eastern Wh Beech Birch,White | ite | | FACU FAC+ FAC+ |
| % Species | that are OBL, FACW, | or FAC (except | | Cowardin | Classification: | 17101 |
| Remarks Hydrolog | | | | | | |
| [] Record [] [] [] [] Field Obs | orded Data (describe in Stream, Lake, or Tide Aerial Photograph Other (describe in rer tervations: oth of Surface Water(in to the Free Water in Poth to Saturated Soils(| e Gage marks) n.): 0 it(in.): 1 | Primary Wetland Hydrolo [X] Inundated [X] Saturated in uppe [X] Water marks [X] Drift lines [X] Sediment deposit [X] Drainage patterns | er 12 inches | Secondary Hydrolog [] Oxidized root [X] Water-stained [] Local soil sun [] FAC-Neutral t [] Other (explain | channels I leaves vey data lest |
| Soils | | | | _ | | |
| Depth F (in.) | lor. Matrix Color | Mottle / 2nd M Color | ottle Abundance Contra | Texture, ast Structure | etc | |
| 8-0 C 0-12 A | GLEY2 2.5/5PB | 5YR 5/8 5YR 6/3 | common few | | ine Sand | |
| [] His [] His [] Su [X] Pro [X] Re | oils Indicators stosol stic Epipedon Ifidic Odor obable Aquatic Moist I ducing Conditions eyed or Low-Chroma | - | [] Organic [] Listed or [] Listed or | ganic % in Surface | s List | |
| Unit Nam Drainage | e: | | Taxonomy: | vations match map |) | |
| Remarks | | | | | | |
| [X] Hydro | Determination ophytic Vegetation Pre | | [X] This Dat | a Point is a Wetlan | d | |

| Applicant/Or Investigator: [X] Do norm [] Have ve | : Concord Resort wner: Concord As : Ethan Stewart nal circumstances e getation, soils, or he ea a potential problem | xist on the site? ydrology been dist | urbed? | County State: Comm Station | October 18, 2004 /: Sullivan New York unity ID: W26 ID: Transect 26.1 : Upland | |
|---|--|---|--|--|---|--------------------------------------|
| Dominant | Species | | Common Name | | % Cover | Indicator |
| Herbaceous X Tree | - | ooracensis | Fern,New York | | | FAC |
| X | Tsuga canadensis Fagus grandifolia Betula alleghaniel | | Hemlock,Eastern Beech Birch,Yellow | | | FACU FAC+ FAC |
| % Species t Remarks | hat are OBL, FACW | | | Cowardin C | Classification: | 17.0 |
| [] [] [] [] [] [] [] [] [] [] | ded Data (describe i Stream, Lake, or Tio Aerial Photograph Other (describe in re | de Gage emarks) (in.): 0 Pit(in.): >24 | Primary Wetland Hydrolog [] Inundated [] Saturated in upper of the second of the s | 12 inches | Secondary Hydrology [] Oxidized root of a secondary Hydrology [] Water-stained [] Local soil survoil [] FAC-Neutral to a secondary [] Other (explain) | channels leaves ey data est |
| Remarks | | | | | | |
| Soils | | | | | | |
| Soils Depth Ho (in.) | or. Matrix Color | Mottle / 2nd M Color | fottle Abundance Contrasi | Texture, Structure, | etc. | |
| Soils Depth Ho | Color 5YR 3/1 | | | _ ′ | etc. | |
| Soils Depth Ho (in.) 2-0 O 0-14 A Hydric Soi [] Hist [] Hist [] Sult [] Pro [] Rec [] Gle Unit Name | Color 5YR 3/1 5YR 3/3 ils Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist ducing Conditions yed or Low-Chroma | Color 5YR 4/2 t Regime | Abundance Contrast few [] Concretion [] High Orga [] Organic St [] Listed on L [] Listed on N [] Other (exp | Structure, Silt S | ayer _ist | |
| Soils Depth Ho (in.) 2-0 O 0-14 A Hydric Soi [] Hist [] Hist [] Sulf [] Pro [] Rec [] Gle Unit Name Drainage C Remarks Hard Pan | Color 5YR 3/1 5YR 3/3 ils Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist ducing Conditions yed or Low-Chroma | Color 5YR 4/2 t Regime a Colors | Abundance Contrast few [] Concretion [] High Orga [] Organic St [] Listed on L [] Listed on N [] Other (exp | Structure, Silt S | ayer _ist | |

Job Number: **100309** City: **Thompson**

Wetland Data Point: W26(wetland)

| - | | | t, Thompson, NY | | | : October 18, 2004 | |
|--|--|--|---|---|---|---|--------------|
| | | er: Concord A | ssociates, LP | | | nty: Sullivan | |
| | | Ethan Stewart | | | | : New York | |
| | | | exist on the site? | | | munity ID: W26 | |
| | _ | | ydrology been dist | urbed? | | on ID: Transect 26.1 | |
| | | a potential prob | lem area? | | Plot | ID: Wetland | |
| /egeta | | | | | | | |
| | | Species | | Common Name | | % Cover | Indicator |
| Herbac | | A - (| | A = (= = Fl= (T = = \A/ | | | E4 0)4/ |
| Х | | Aster umbellatus Sphagnum sp | | Aster,Flat-Top W | nite | | FACW |
| | | Sphagnum sp. Thelypteris novel | horacensis | Fern.New York | | | FAC |
| | | Euonymus ameri | | Strawberry-Bush, | American | | FAC |
| <u>Shrub</u> | | | | 5 | | | =. 0 |
| Troo | ν | /accinium amoe | num | Blueberry,Highbu | sh | | FACW |
| <u>Tree</u> X | Δ | Acer rubrum | | Maple,Red | | | FAC |
| X | F | agus grandifolia | | Beech | | | FAC+ |
| % Spec | ies that | t are OBL, FAC\ | N, or FAC (except F | FAC-): 100 | Cowardin | Classification: | |
| Remark | (S | | | | | | |
| | | | | | | | |
| łydro | logy | | | Primary Wetland Hydrolo | gy Indicators | Secondary Hydrology | / Indicators |
| []Re | ecorded | d Data (describe | in remarks) | [X] Inundated | | [] Oxidized root | |
| | | eam, Lake, or Ti | , | [X] Saturated in uppe | r 12 inches | [X] Water-stained | |
| | | rial Photograph | - | [X] Water marks | | [] Local soil surv | |
| | | ner (describe in r | emarks) | [X] Drift lines | | FAC-Neutral to | |
| | | | , | [X] Sediment deposits | _ | Other (explain | in remarks) |
| | ~ . | | | IV I Sealittetti aebosit | 5 | Other (explain | |
| Field (| Observa | | | | | [] Other (explain | , |
| Field | Depth o | of Surface Wate | . , | [X] Drainage patterns | | [] Other (explain | , |
| Field | Depth o | of Surface Wate to Free Water in | Pit(in.): 0 | | | [] Other (explain | , |
| Field | Depth of Depth t | of Surface Wate | Pit(in.): 0 | | | [] Guiei (explain | , |
| Field | Depth of Depth to Dep | of Surface Wate to Free Water in | Pit(in.): 0 | | | [] Guiei (explain | , |
| Field (| Depth of Depth to Dep | of Surface Wate to Free Water in | Pit(in.): 0 | | | [] Guiei (explain | , |
| Field (| Depth of Depth to Dep | of Surface Wate to Free Water in | Pit(in.): 0 | | | [] Guiei (explain | |
| Field (| Depth of Depth to Depth to rks | of Surface Wate to Free Water in | Pit(in.): 0 | [X] Drainage patterns | | [] Guiei (explain | |
| Field (Rema | Depth of Depth to Depth to rks | of Surface Wate to Free Water in to Saturated Soi Matrix Color | Pit(in.): 0 ls(in.): 0 | [X] Drainage patterns | in wetlands Texture, | | |
| Rema Boils Depth | Depth of Depth to Depth to rks | of Surface Wate to Free Water in to Saturated Soi | Pit(in.): 0 Is(in.): 0 Mottle / 2nd M Color 7.5YR 4/4 | ottle Abundance Contra | in wetlands Texture, | e, etc. | |
| Rema Soils Depth (in.) | Depth of Depth to Depth to rks | of Surface Wate to Free Water in to Saturated Soi Matrix Color | Pit(in.): 0 Is(in.): 0 Mottle / 2nd M Color | [X] Drainage patterns ottle Abundance Contra | in wetlands Texture, st Structure | e, etc. | |
| Rema Soils Depth (in.) 0-15 | Depth of Depth to Depth to rks Hor. | of Surface Wate to Free Water in to Saturated Soi Matrix Color | Pit(in.): 0 Is(in.): 0 Mottle / 2nd M Color 7.5YR 4/4 | ottle Abundance Contra | in wetlands Texture, st Structure | e, etc. | |
| Rema Soils Depth (in.) 0-15 | Depth of Depth to Depth to Trks Hor. A | of Surface Water to Free Water in to Saturated Soi Matrix Color 5YR 3/2 | Pit(in.): 0 Is(in.): 0 Mottle / 2nd M Color 7.5YR 4/4 | ottle Abundance Contra common common | Texture, Silty Clay | e, etc. | |
| Rema Soils Depth (in.) 0-15 Hydric | Depth of Depth to Depth to Trks Hor. A C Soils I Histos | of Surface Water to Free Water in to Saturated Soi Matrix Color 5YR 3/2 Indicators | Pit(in.): 0 Is(in.): 0 Mottle / 2nd M Color 7.5YR 4/4 | ottle Abundance Contra common common [] Concreti | Texture, Structure Silty Clay | e, etc. | |
| Rema Soils Depth (in.) 0-15 Hydric | Depth t Depth t rks Hor. A C Soils I Histos Histic | of Surface Water to Free Water in to Saturated Soi Matrix Color 5YR 3/2 Indicators iol Epipedon | Pit(in.): 0 Is(in.): 0 Mottle / 2nd M Color 7.5YR 4/4 | ottle Abundance Contra common common [] Concreti [] High Org | Texture, Structure Silty Clay | e, etc. | |
| Rema Soils Depth (in.) 0-15 Hydric | Depth t Depth t rks Hor. A C Soils I Histos Histic Sulfidid | of Surface Water to Free Water in to Saturated Soi Matrix Color 5YR 3/2 Indicators iol Epipedon c Odor | Mottle / 2nd M Color 7.5YR 4/4 7.5YR 3/1 | ottle Abundance Contra common [] Concreti [] High Org [] Organic | Texture, Structure Silty Clay | e, etc. y Layer | |
| Rema Soils Depth (in.) 0-15 Hydric [] [] [X] | Depth of Depth to Depth to Trks Hor. A C Soils I Histos Histic Sulfidial Probal | of Surface Water to Free Water in to Saturated Soi Matrix Color 5YR 3/2 Indicators sol Epipedon c Odor ble Aquatic Mois | Mottle / 2nd M Color 7.5YR 4/4 7.5YR 3/1 | ottle Abundance Contra common [] Concreti [] High Org [] Organic [] Listed or | Texture, st Structure Silty Clay ons janic % in Surface Streaking a Local Hydric Soils | e, etc. y Layer s List | |
| Rema Soils Depth (in.) 0-15 Hydric [] [] [X] | Depth of Depth to Depth to Depth to Trks Hor. A C Soils I Histos Histic Sulfidial Probal Reduce Redu | of Surface Water to Free Water in to Saturated Soi Matrix Color 5YR 3/2 Indicators sol Epipedon c Odor ble Aquatic Moissing Conditions | Pit(in.): 0 Is(in.): 0 Mottle / 2nd M Color 7.5YR 4/4 7.5YR 3/1 | ottle Abundance Contra common [] Concreti [] High Org [] Organic [] Listed or [] Listed or | Texture, st Structure Silty Clay ons panic % in Surface Streaking Local Hydric Soils National Hydric S | e, etc. y Layer s List | |
| Rema Soils Depth (in.) 0-15 Hydric [] [X] [] | Depth of Depth to Depth to Depth to Trks Hor. A Control Soils I History History History Sulfidial Probal Reduct Gleyed | of Surface Water to Free Water in to Saturated Soi Matrix Color 5YR 3/2 Indicators sol Epipedon c Odor ble Aquatic Mois | Pit(in.): 0 Is(in.): 0 Mottle / 2nd M Color 7.5YR 4/4 7.5YR 3/1 | ottle Abundance Contra common [] Concreti [] High Org [] Organic [] Listed or [] Other (e: | Texture, st Structure Silty Clay ons janic % in Surface Streaking a Local Hydric Soils | e, etc. y Layer s List | |
| Rema Soils Depth (in.) 0-15 Hydric [] [X] [] [] Unit N | Depth of Depth to Depth to Depth to The Popular Control of the Popul | of Surface Water to Free Water in to Saturated Soi Matrix Color 5YR 3/2 Indicators col Epipedon c Odor ble Aquatic Moiseing Conditions d or Low-Chrom | Pit(in.): 0 Is(in.): 0 Mottle / 2nd M Color 7.5YR 4/4 7.5YR 3/1 | ottle Abundance Contra common [] Concreti [] High Org [] Organic [] Listed or [] Other (e: Taxonomy: | Texture, Silty Clay ons Janic % in Surface Streaking a Local Hydric Soils a National Hydric S kplain in remarks) | e, etc. y Layer s List soils List | |
| Rema Soils Depth (in.) 0-15 Hydric [] [X] [] [] Unit N | Depth of Depth to Depth to Depth to Trks Hor. A Control Soils I History History History Sulfidial Probal Reduct Gleyed | of Surface Water to Free Water in to Saturated Soi Matrix Color 5YR 3/2 Indicators col Epipedon c Odor ble Aquatic Moiseing Conditions d or Low-Chrom | Pit(in.): 0 Is(in.): 0 Mottle / 2nd M Color 7.5YR 4/4 7.5YR 3/1 | ottle Abundance Contra common [] Concreti [] High Org [] Organic [] Listed or [] Other (e: Taxonomy: | Texture, st Structure Silty Clay ons panic % in Surface Streaking Local Hydric Soils National Hydric S | e, etc. y Layer s List soils List | |
| Rema Soils Depth (in.) 0-15 Hydric [] [X] [] [] Unit N | Depth of Depth to Depth to Depth to Depth to Tks Hor. A C Soils I Histos Histos Histos Hosal Reduct Reduct Gleyed Imme: | of Surface Water to Free Water in to Saturated Soi Matrix Color 5YR 3/2 Indicators col Epipedon c Odor ble Aquatic Moiseing Conditions d or Low-Chrom | Pit(in.): 0 Is(in.): 0 Mottle / 2nd M Color 7.5YR 4/4 7.5YR 3/1 | ottle Abundance Contra common [] Concreti [] High Org [] Organic [] Listed or [] Other (e: Taxonomy: | Texture, Silty Clay ons Janic % in Surface Streaking a Local Hydric Soils a National Hydric S kplain in remarks) | e, etc. y Layer s List soils List | |
| Rema Soils Depth (in.) 0-15 Hydric [] [X] [] [] Unit N Draina Remark | Depth of Depth to Depth to Depth to Depth to Depth to rks Hor. A C Soils I Histos Histic Sulfidial Probal Reduce Gleyed lame: age Cla | of Surface Water of Surface Water to Free Water in to Saturated Soi Matrix Color 5YR 3/2 Indicators sol Epipedon c Odor ble Aquatic Moissing Conditions d or Low-Chrom | Pit(in.): 0 Mottle / 2nd M Color 7.5YR 4/4 7.5YR 3/1 St Regime a Colors | ottle Abundance Contra common [] Concreti [] High Org [] Organic [] Listed or [] Other (e: Taxonomy: | Texture, Silty Clay ons Janic % in Surface Streaking a Local Hydric Soils a National Hydric S kplain in remarks) | e, etc. y Layer s List soils List | |
| Rema Soils Depth (in.) 0-15 Hydric [] [] [X] [] Unit N Draina Remark | Depth of Depth to Depth to Depth to Depth to The Depth to | of Surface Water of Surface Water to Free Water in to Saturated Soi Matrix Color 5YR 3/2 Indicators col Epipedon c Odor ble Aquatic Moiseing Conditions d or Low-Chrom ass: | Pit(in.): 0 Is(in.): 0 Mottle / 2nd M Color 7.5YR 4/4 7.5YR 3/1 St Regime a Colors | ottle Abundance Contra common [] Concreti [] High Org [] Organic [] Listed or [] Listed or [] Other (e: Taxonomy: [] Field Obser | Texture, st Structure Silty Clay ons panic % in Surface Streaking Local Hydric Soils National Hydric S kplain in remarks) vations match map | e, etc. y Layer s List coils List | |
| Rema Soils Depth (in.) 0-15 Hydric [] [] [X] [] Unit N Draina Remark | Depth of Depth to Depth to Depth to Depth to Depth to rks Hor. A Soils I Histose Historic Sulfidial Probal Reduced I Redu | of Surface Water of Surface Water to Free Water in to Saturated Soi Matrix Color 5YR 3/2 Indicators col Epipedon c Odor ble Aquatic Moiseing Conditions d or Low-Chrom ass: | Pit(in.): 0 Is(in.): 0 Mottle / 2nd M Color 7.5YR 4/4 7.5YR 3/1 St Regime a Colors | ottle Abundance Contra common [] Concreti [] High Org [] Organic [] Listed or [] Listed or [] Other (e: Taxonomy: [] Field Obser | Texture, Silty Clay ons Janic % in Surface Streaking a Local Hydric Soils a National Hydric S kplain in remarks) | e, etc. y Layer s List coils List | |
| Rema Soils Depth (in.) 0-15 Hydric [] [X] [] Unit N Draina Remark Vetlai [X] Hy | Depth of Depth to Depth to Depth to Depth to Depth to rks Hor. A Soils I Histose Histor Sulfidial Probal Reduced | of Surface Water of Surface Water to Free Water in to Saturated Soi Matrix Color 5YR 3/2 Indicators sol Epipedon c Odor ble Aquatic Moiseing Conditions d or Low-Chrom ass: eterminatio vtic Vegetation Poils Present | Mottle / 2nd M Color 7.5YR 4/4 7.5YR 3/1 | ottle Abundance Contra common [] Concreti [] High Org [] Organic [] Listed or [] Listed or [] Other (e: Taxonomy: [] Field Obser | Texture, st Structure Silty Clay ons panic % in Surface Streaking Local Hydric Soils National Hydric S kplain in remarks) vations match map | e, etc. y Layer s List coils List | |
| Rema Soils Depth (in.) 0-15 Hydric [] [X] [] Unit N Draina Remark Vetlai [X] Hy | Depth of Depth of Depth of Depth of Depth of Depth of The | of Surface Water of Surface Water to Free Water in to Saturated Soi Matrix Color 5YR 3/2 Indicators col Epipedon c Odor ble Aquatic Moiseing Conditions d or Low-Chrom ass: | Mottle / 2nd M Color 7.5YR 4/4 7.5YR 3/1 | ottle Abundance Contra common [] Concreti [] High Org [] Organic [] Listed or [] Listed or [] Other (e: Taxonomy: [] Field Obser | Texture, st Structure Silty Clay ons panic % in Surface Streaking Local Hydric Soils National Hydric S kplain in remarks) vations match map | e, etc. y Layer s List coils List | |

| Project/Sit/ | e. Concord Res | sort, Thompson, NY | , | Date: | October 29, 2004 | |
|---|---|---|---|--|--------------------------|----------------|
| • | | d Associates, LP | | | y: Sullivan | |
| | or: Ethan Stewa | | | | New York | |
| | | es exist on the site? | | | unity ID: W27 | |
| [] Have v | egetation, soils, | or hydrology been di | sturbed? | Station | n ID: Transect 27.3 | |
| | area a potential p | | | Plot ID | : Upland | |
| Vegetati | on | | | | | |
| Dominant | Species | | Common Name | | % Cover | Indicator |
| <u>Herbaceo</u> | | , | - N V I | | | 540 |
| X Troo | Sphagnum sp | oveboracensis o. | Fern,New York | | | FAC |
| <u>Tree</u> X | Tsuga canade | ensis | Hemlock, Eastern | | | FACU |
| | Fagus grandit | | Beech | | | FAC+ |
| % Species Remarks | that are OBL, F | ACW, or FAC (excep | t FAC-): 50 | Cowardin (| Classification: | |
| Hydrolog | qv | | Primary Wetland Hydrolog | / Indicators | Secondary Hydrology | / Indicators |
| • | orded Data (descr | rihe in remarks) | [] Inundated | maicators | Oxidized root | |
| |] Stream, Lake, o | , | [] Saturated in upper 1 | 2 inches | [] Water-stained | |
| | Aerial Photogra | - | [] Water marks | | [] Local soil surv | |
| | Other (describe | • | Drift lines | | FAC-Neutral to | |
| ı J | 1 Other (describe | iii idiiaiks) | [] Sediment deposits | | [] Other (explain | |
| Field Obs | servations: | | Drainage patterns ir | wetlands | [] Other (explain | iii iciiiaiks) |
| De | pth of Surface W | /ater(in.): 0 | [] Drainage patterns ii | wellanus | | |
| De | pth to Free Wate | er in Pit(in.): >24 | | | | |
| 1 | | 0 " " \ 04 | | | | |
| De | ptn to Saturated | Soils(in.): >24 | | | | |
| De _i Remarks | • | Soils(in.): >24 | | | | |
| Remarks | • | Soils(in.): >24 | | | | |
| Remarks | • | Solls(in.): >24 | | | | |
| Remarks Soils Depth | Hor. Matrix | Mottle / 2nd | | Texture, | | |
| Remarks Soils Depth I (in.) | Hor. Matrix Color | Mottle / 2nd Color | Mottle Abundance Contrast | • | etc. | |
| Remarks Soils Depth (in.) 2-0 | Hor. Matrix Color O GLEY2 2.5 | Mottle / 2nd Color /5PB | Abundance Contrast | Structure, | etc. | |
| Remarks Soils Depth H (in.) 2-0 (0-6 // | Hor. Matrix Color O GLEY2 2.5, A 5YR 4/4 | Mottle / 2nd Color | | • | etc. | |
| Remarks Soils Depth H (in.) 2-0 C 0-6 H Hydric So | Hor. Matrix Color O GLEY2 2.5, A 5YR 4/4 oils Indicators | Mottle / 2nd Color /5PB | Abundance Contrast | Structure, Silt | etc. | |
| Remarks Soils Depth H (in.) 2-0 C 0-6 A Hydric So [] His | Hor. Matrix Color O GLEY2 2.5, A 5YR 4/4 oils Indicators stosol | Mottle / 2nd Color /5PB | Abundance Contrast few [] Concretion | Structure, Silt | | |
| Remarks Soils Depth H (in.) 2-0 C 0-6 A Hydric So [] His | Hor. Matrix Color O GLEY2 2.5, A 5YR 4/4 oils Indicators | Mottle / 2nd Color /5PB | Abundance Contrast few [] Concretion | Structure, Silt | | |
| Remarks Soils Depth H (in.) 2-0 C 0-6 A Hydric So [] His | Hor. Matrix Color O GLEY2 2.5, A 5YR 4/4 oils Indicators stosol | Mottle / 2nd Color /5PB | Abundance Contrast few [] Concretion | Structure, Silt s nic % in Surface L | | |
| Remarks Soils Depth H (in.) 2-0 C 0-6 A Hydric So [] His [] His [] So | Hor. Matrix Color O GLEY2 2.5, A 5YR 4/4 oils Indicators stosol stic Epipedon | Mottle / 2nd Color /5PB 5YR 4/3 | Abundance Contrast few [] Concretion [] High Organic St | Structure, Silt s nic % in Surface L | ayer | |
| Remarks Depth H (in.) 2-0 (0-6 A Hydric So [] His [] Su [] Pr | Hor. Matrix Color O GLEY2 2.5, A 5YR 4/4 oils Indicators stosol stic Epipedon ulfidic Odor | Mottle / 2nd Color /5PB 5YR 4/3 | Abundance Contrast few [] Concretion [] High Organ [] Organic St [] Listed on L | Structure, Silt s nic % in Surface L reaking | ayer List | |
| Remarks Depth H (in.) 2-0 0 0-6 A Hydric So [] His [] Su [] Pr [] Re | Hor. Matrix Color | Mottle / 2nd Color /5PB 5YR 4/3 Moist Regime ns | Abundance Contrast few [] Concretion [] High Organ [] Organic St [] Listed on L [] Listed on N | Structure, Silt s nic % in Surface L reaking ocal Hydric Soils | ayer List | |
| Remarks | Hor. Matrix Color O GLEY2 2.5, A 5YR 4/4 oils Indicators stosol stic Epipedon ulfidic Odor robable Aquatic Neducing Condition | Mottle / 2nd Color /5PB 5YR 4/3 Moist Regime ns | Abundance Contrast few [] Concretion [] High Organ [] Organic St [] Listed on L [] Listed on N [] Other (exp | Structure, Silt s nic % in Surface L reaking ocal Hydric Soils lational Hydric So | ayer List | |
| Remarks Depth H (in.) 2-0 C 0-6 H Hydric Sc []His []Su []Pr []Re []Gl Unit Nam | Hor. Matrix Color O GLEY2 2.5, A 5YR 4/4 oils Indicators stosol stic Epipedon ulfidic Odor robable Aquatic Neducing Condition leyed or Low-Chrine: | Mottle / 2nd Color /5PB 5YR 4/3 Moist Regime ns | Abundance Contrast few [] Concretion [] High Organ [] Organic St [] Listed on L [] Listed on N [] Other (exp | Structure, Silt s nic % in Surface L reaking ocal Hydric Soils lational Hydric So ain in remarks) | ayer List | |
| Remarks Depth H (in.) 2-0 G 0-6 A Hydric Sc []His []Su []Pr []Re []Gl Unit Nam Drainage | Hor. Matrix Color O GLEY2 2.5, A 5YR 4/4 oils Indicators stosol stic Epipedon ulfidic Odor robable Aquatic Neducing Condition leyed or Low-Chrine: | Mottle / 2nd Color /5PB 5YR 4/3 Moist Regime ns | Abundance Contrast few [] Concretion [] High Organ [] Organic St [] Listed on L [] Listed on N [] Other (exp | Structure, Silt s nic % in Surface L reaking ocal Hydric Soils lational Hydric So ain in remarks) | ayer List | |
| Remarks Depth H (in.) 2-0 C 0-6 H Hydric Sc []His []Su []Pr []Re []Gl Unit Nam | Hor. Matrix Color O GLEY2 2.5, A 5YR 4/4 oils Indicators stosol stic Epipedon ulfidic Odor robable Aquatic Neducing Condition leyed or Low-Chrine: | Mottle / 2nd Color /5PB 5YR 4/3 Moist Regime ns | Abundance Contrast few [] Concretion [] High Organ [] Organic St [] Listed on L [] Listed on N [] Other (exp | Structure, Silt s nic % in Surface L reaking ocal Hydric Soils lational Hydric So ain in remarks) | ayer List | |
| Remarks Depth H (in.) 2-0 G 0-6 A Hydric So [] His [] Su [] Pr [] Re [] GI Unit Nam Drainage Remarks Rock 8" | Hor. Matrix Color O GLEY2 2.5, A 5YR 4/4 oils Indicators stosol stic Epipedon ulfidic Odor robable Aquatic Neducing Condition leyed or Low-Chrine: | Mottle / 2nd Color /5PB 5YR 4/3 Moist Regime ns roma Colors | Abundance Contrast few [] Concretion [] High Organ [] Organic St [] Listed on L [] Listed on N [] Other (exp | Structure, Silt s nic % in Surface L reaking ocal Hydric Soils lational Hydric So ain in remarks) | ayer List | |
| Remarks Depth H (in.) 2-0 C 0-6 A Hydric Sc []His []Sc []Pr []Re []Gl Unit Nam Drainage Remarks Rock 8" | Hor. Matrix Color | Mottle / 2nd Color /5PB 5YR 4/3 Moist Regime ns roma Colors | Abundance Contrast few [] Concretion [] High Organ [] Organic St [] Listed on L [] Listed on N [] Other (exp Taxonomy: [] Field Observa | Structure, Silt s nic % in Surface L reaking ocal Hydric Soils lational Hydric So ain in remarks) tions match map | ayer List ils List | |
| Remarks Depth F (in.) 2-0 C 0-6 A Hydric Sc []His []Sc []Pr []Re []Gl Unit Nam Drainage Remarks Rock 8" Wetland []Hydro | Hor. Matrix Color | Mottle / 2nd Color /5PB 5YR 4/3 Moist Regime ns roma Colors | Abundance Contrast few [] Concretion [] High Organ [] Organic St [] Listed on L [] Listed on N [] Other (exp Taxonomy: [] Field Observa | Structure, Silt s nic % in Surface L reaking ocal Hydric Soils lational Hydric So ain in remarks) | ayer List ils List | |
| Remarks Depth F (in.) 2-0 C 0-6 A Hydric Sc []His []Sc []Pr []Re []Gl Unit Nam Drainage Remarks Rock 8" Wetland []Hydro []Hydro []Hydro []Hydro []Hydro | Hor. Matrix Color | Mottle / 2nd Color /5PB 5YR 4/3 Moist Regime ns roma Colors tion on Present | Abundance Contrast few [] Concretion [] High Organ [] Organic St [] Listed on L [] Listed on N [] Other (exp Taxonomy: [] Field Observa | Structure, Silt s nic % in Surface L reaking ocal Hydric Soils lational Hydric So ain in remarks) tions match map | ayer List ils List | |
| Remarks Depth F (in.) 2-0 C 0-6 A Hydric Sc []His []Sc []Pr []Re []Gl Unit Nam Drainage Remarks Rock 8" Wetland []Hydro []Hydro []Hydro []Hydro []Hydro | Hor. Matrix Color | Mottle / 2nd Color /5PB 5YR 4/3 Moist Regime ns roma Colors tion on Present | Abundance Contrast few [] Concretion [] High Organ [] Organic St [] Listed on L [] Listed on N [] Other (exp Taxonomy: [] Field Observa | Structure, Silt s nic % in Surface L reaking ocal Hydric Soils lational Hydric So ain in remarks) tions match map | ayer List ils List | |

Job Number: 100309 City: Thompson

Wetland Data Point: W27(wetland)

| Applicant/O' Investigator [X] Do norm [] Have ve [] Is the ar Vegetatic Dominant Herbaceou X Tree X | Species | st on the site? rology been disturben area? | Common Name Fern,New York Hemlock,Eastern Maple,Red Beech | County State: Commi Station Plot ID: | October 29, 2004 : Sullivan New York unity ID: W27 ID: Transect 27.3 : Wetland % Cover | Indicator FAC FACU FAC FAC FAC+ |
|--|---|---|--|--|---|--------------------------------------|
| Hydrolog | v | | | | 0 | . In Product |
| [] Record [] \$ [] \$ Field Obset Dep Dep | ded Data (describe in Stream, Lake, or Tide Aerial Photograph Other (describe in rem | remarks) Gage arks) .): 0 .(in.): 3 | imary Wetland Hydrolog [] Inundated [X] Saturated in upper [X] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns i | 12 inches | Secondary Hydrology [] Oxidized root of [X] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | channels leaves ey data est |
| Soils | | | | | | |
| Depth He | or. Matrix Color | Mottle / 2nd Mottl Color | e Abundance Contras | Texture, t Structure, e | etc. | |
| 3-0 O 0-2 A 2-6 Bg | GLEY2 2.5/5PB 2.5YR 2.5/1 g 7.5YR 6/1 | 7.5YR 5/1 | common | Silt Silt | | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [X] Reducing Conditions [X] Gleyed or Low-Chroma Colors Unit Name: | | | [] Concretions [] High Organic % in Surface Layer [] Organic Streaking [] Listed on Local Hydric Soils List [] Listed on National Hydric Soils List [] Other (explain in remarks) Taxonomy: | | | |
| Drainage (| Class: | | [] Field Observa | ations match map | | |
| Remarks Rock | _ | | | | | |
| [X] Hydrop [X] Hydric | Determination Ohytic Vegetation Pres Soils Present Ind Hydrology Present | sent | [X] This Data | Point is a Wetland | | |

| Project/Site: Concord Resort, Thompson, Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site [] Have vegetation, soils, or hydrology been [] Is the area a potential problem area? Vegetation Dominant Species Herbaceous X Golf Coarse Grass | 9? | Date: October 29, 2004 County: Sullivan State: New York Community ID: W63 Station ID: Transect 63.1 Plot ID: Upland % Cover Indicator |
|--|---|--|
| Tree Tsuga canadensis % Species that are OBL, FACW, or FAC (exc Remarks | Hemlock,Eastern ept FAC-): 0 Con | FACU wardin Classification: |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicator [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils Depth Hor. Matrix Mottle / 2r (in.) Color Color | | exture, ructure, etc. |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: Remarks | [] Concretions [] High Organic % in St [] Organic Streaking [] Listed on Local Hydri [] Listed on National Hy [] Other (explain in rem Taxonomy: [] Field Observations mate | ic Soils List ydric Soils List narks) |
| No sample Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a \ | Wetland |

Job Number: 100309 City: Thompson

Wetland Data Point: W63(wetland)

| Applicant/C Investigato [X] Do norr [] Have vo [] Is the a | e: Concord Resort, owner: Concord As r: Ethan Stewart mal circumstances ex egetation, soils, or hy rea a potential proble | sociates, LP ist on the site? drology been dis | turbed? | Co Sta Co Sta | te: October 29, 2004 unty: Sullivan tte: New York mmunity ID: W63 ttion ID: Transect 63.1 tt ID: Wetland | |
|---|--|--|--|------------------------|---|---------------------------------------|
| Dominant | Species | | Common Name | | % Cover | Indicator |
| <u>Herbaceou</u> X <u>Tree</u> | <u>IS</u> Thelypteris novebo Sphagnum sp. | oracensis | Fern,New York | | | FAC |
| X | Tsuga canadensis | | Hemlock, Eastern | | | FACU |
| % Species | Fagus grandifolia that are OBL, FACW | . or FAC (except | Beech FAC-): 50 | Coward | in Classification: | FAC+ |
| Remarks | | , c c (except | . , , | Jonaia | | |
| [] [] [] Field Obs Dep Dep | ded Data (describe in Stream, Lake, or Tid Aerial Photograph Other (describe in re ervations: oth of Surface Water(oth to Free Water in Foth to Saturated Soils | e Gage marks) in.): 0 Pit(in.): 2 | Primary Wetland Hydrolo [] Inundated [X] Saturated in upper [X] Water marks [] Drift lines [] Sediment deposits [X] Drainage patterns | 12 inches | Secondary Hydrolog [] Oxidized root [X] Water-stained [] Local soil surv [] FAC-Neutral t [] Other (explain | channels leaves rey data est |
| Soils | | | | | | |
| | lor. Matrix | Mottle / 2nd N | | Texture | ' | |
| (in.) 3-0 C | Color Color CLEY2 2.5/5PB | Color | Abundance Contra | st Structu | re, etc. | |
| 0-8 A | | | | Silt | | |
| 8-14 E | | 2.5YR 3/1 | common | Sandy | Loam | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [X] Probable Aquatic Moist Regime [X] Reducing Conditions [] Gleyed or Low-Chroma Colors | | [] Concretions [] High Organic % in Surface Layer [] Organic Streaking [] Listed on Local Hydric Soils List [] Listed on National Hydric Soils List [] Other (explain in remarks) | | | | |
| Unit Nam Drainage | | | Taxonomy: [] Field Observ | /ations match ma | ap | |
| Remarks | | | [] 25561 | | | |
| [X] Hydro [X] Hydrio | Determination phytic Vegetation Pro Soils Present nd Hydrology Presen | esent | [X] This Data | a Point is a Wetla | and | |

| Applicant/O Investigator [X] Do norm [] Have ve [] Is the ar | : Concord Resort, wner: Concord As : Ethan Stewart nal circumstances ex- getation, soils, or hy ea a potential proble | xist on the site? | ırbed? | | Co Sta Co Sta | te: October 29, 2004 unty: Sullivan ate: New York mmunity ID: W63 ation ID: Transect 62.1 bt ID: Upland | |
|--|--|------------------------|-----------------|-------------------------------|------------------------|---|------------|
| Vegetatio | | | 0 | . M | | 0/ 0 | la dia dan |
| Dominant Herbaceou | Species | | Commoi | n Name | | % Cover | Indicator |
| X | Thelypteris noveb Sphagnum sp. | oracensis | Fern,Nev | v York | | | FAC |
| <u>Tree</u> X | Tsuga canadensis | ; | Hemlock | ,Eastern | | | FACU |
| º/ Chasias t | Fagus grandifolia | or EAC (avant F | Beech | | Coword | lin Classification: | FAC+ |
| Remarks | hat are OBL, FACW | , or FAC (except r | AC-). 30 | | Coward | iiii Ciassiiication. | |
| Hydrolog | - | | Primary Wetland | | licators | Secondary Hydrolog | |
| | ded Data (describe i | • | [] Inundated | | | Oxidized root | |
| | Stream, Lake, or Tid | le Gage | | l in upper 12 in | cnes | [] Water-stained [] Local soil surv | |
| | Aerial Photograph Other (describe in re | marke) | [] Water ma | | | [] FAC-Neutral t | • |
| | | marks) | [] Sediment | | | Other (explain | |
| Field Obse | | <i>"</i> | | patterns in wet | lands | [] (- - | - · · · , |
| | th of Surface Water | · , | | | | | |
| | th to Free Water in I th to Saturated Soils | | | | | | |
| | iii to Saturateu Sons | s(III.). >24 | | | | | |
| Remarks | | | | | | | |
| Soils | | | | | | | |
| | or. Matrix | Mottle / 2nd M | | | Texture | • | |
| (in.) 2-0 O | Color 5YR 3/1 | Color | Abundance | Contrast | | ire, etc. | |
| 0-3 A | 7.5YR 4/4 | 7.5YR 3/2 | common | | Silt | nposed leaves | |
| 3-12 B | 7.5YR 5/4 | 7.5YR 4/3 | common | | Silt Loa | am | |
| | ils Indicators | | | | | | |
| Hydric Soi | | | [] | Concretions | | | |
| | tic Epipedon | | | Concretions High Organic % | in Surfac | ce Laver | |
| | fidic Odor | | | Organic Streak | | o Layor | |
| | bable Aquatic Moist | Regime | | Listed on Local | - | oils List | |
| | ducing Conditions | -3 | | Listed on Natio | • | | |
| | yed or Low-Chroma | Colors | | Other (explain i | | | |
| Unit Name | 1 . | | Taxono | omv: | | | |
| Drainage (| | | | ld Observations | match m | ap | |
| Remarks | | | | | | • | |
| Wetland | Determination | <u> </u> | | | | | |
| [] Hydric | ohytic Vegetation Pr Soils Present ad Hydrology Preser | | [] | This Data Point | is a Wetla | and | |

Job Number: 100309 City: Thompson

Wetland Data Point: W62(wetland)

| Applicant/0 Investigato [X] Do nor [] Have v [] Is the a | e: Concord Resort Owner: Concord A or: Ethan Stewart mal circumstances e regetation, soils, or h area a potential prob | exist on the site? anydrology been dist | urbed? | | Cou Stat Con Stat | e: October 29, 2004 unty: Sullivan te: New York nmunity ID: W62 tion ID: Transect 62.1 t ID: Wetland | |
|---|---|--|---|--------------------------------|----------------------------|--|---------------------------------------|
| Vegetati | | | 0 | . M | | 0/ 0 | lo di a tan |
| Dominant Herbaceo | | | Commo | n Name | | % Cover | Indicator |
| X Tree | Thelypteris novel | boracensis | Fern,Nev | v York | | | FAC |
| X | Tsuga canadensi Fagus grandifolia | | Hemlock Beech | ,Eastern | | | FACU FAC+ |
| % Species Remarks | that are OBL, FACV | V, or FAC (except | FAC-): 50 | | Cowardi | n Classification: | |
| [] [] [] Field Obs De De | rded Data (describe Stream, Lake, or Ti Aerial Photograph Other (describe in r servations: pth of Surface Wate pth to Free Water in pth to Saturated Soi | de Gage emarks) r(in.): 0 Pit(in.): 3 | [] Water ma [] Drift lines [] Sediment | d I in upper 12 ind arks | ches | Secondary Hydrolog [] Oxidized root [X] Water-stained [] Local soil surv [] FAC-Neutral t [] Other (explain | channels leaves rey data est |
| Soils | | | | | | | |
| | Hor. Matrix | Mottle / 2nd N | lottlo | | Texture | | |
| (in.) | Color | Color | Abundance | Contrast | Structur | • | |
| 3-0 | O 5YR 3/1 A 7.5YR 5/2 | 7.5YR 4/1 7.5YR 4/4 | common | | | posed leaves | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [X] Reducing Conditions [X] Gleyed or Low-Chroma Colors | | | [] Concretions [] High Organic % in Surface Layer [] Organic Streaking [] Listed on Local Hydric Soils List [] Listed on National Hydric Soils List [] Other (explain in remarks) | | | | |
| Unit Name: Drainage Class: | | | Taxonomy: [] Field Observations match map | | | | |
| Remarks Rock 12 | | | | | | | |
| [X] Hydro [X] Hydri | Determinatio phytic Vegetation P c Soils Present and Hydrology Prese | resent | [x] | This Data Point | is a Wetla | nd | |

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been dis [X] Is the area a potential problem area? | turbed? | Date: October 28, 2004 County: Sullivan State: New York Community ID: W61 Station ID: Transect 61.1 Plot ID: Upland |
|--|--|--|
| Vegetation Dominant Species | Common Name | % Cover Indicator |
| Herbaceous Sphagnum sp. Shrub | Dhadadaa Baadaa | 540 |
| Rhododendron maximum Tree X Tsuga canadensis | Rhododendron,Rosebay | FAC FACU |
| X Tsuga canadensis % Species that are OBL, FACW, or FAC (except Remarks | FAC-): 0 Cowa | ardin Classification: |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicators [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | Secondary Hydrology Indicators [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| Depth Hor. Matrix Mottle / 2nd M | | ure, cture, etc. |
| 1-0 O GLEY2 2.5/5PB 0-2 A 2.5YR 4/3 2-5 B 5YR 4/6 | Silt Silt | , |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: | [] Concretions [] High Organic % in Surf [] Organic Streaking [] Listed on Local Hydric [] Listed on National Hyd [] Other (explain in remains and the content of the | Soils List ric Soils List ks) |
| Remarks | [] Fleid Observations match | шар |
| Rock 6" | | |
| Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a We | etland |

Job Number: 100309 City: Thompson

Wetland Data Point: W61(wetland)

| Applican Investiga [X] Do n [] Have | t/Own ator: I ormal e vege | Concord Resort, 1 er: Concord Ass Ethan Stewart circumstances existation, soils, or hyd a potential probler | ociates, LP st on the site? | bed? | Coun State Comr Static | October 28, 2004 ty: Sullivan : New York munity ID: W61 on ID: Transect 61.1 D: Wetland | |
|--------------------------------------|--|---|-----------------------------|-------------------------|---------------------------------|---|---------------|
| Vegeta | | | | | | | |
| Domina: Herbace | | pecies | | Common Name | | % Cover | Indicator |
| X | | phagnum sp. | | | | | |
| <u>Shrub</u> | _ | | | | | | |
| X Troo | F | Rhododendron max | rimum | Rhododendron,R | osebay | | FAC |
| <u>Tree</u> X | 7 | suga canadensis | | Hemlock, Eastern | | | FACU |
| | F | agus grandifolia | | Beech | | | FAC+ |
| 0/ 0 | | Betula alleghaniens | | Birch, Yellow | Cowardia | Classification | FAC |
| % Specie Remarks | | are OBL, FACW, | or FAC (except FA | .C-): 33 | Cowardin | Classification: | |
| Hydrol | ogy | | F | Primary Wetland Hydrolo | nay Indicators | Secondary Hydrolog | ny Indicators |
| - | | Data (describe in | | [] Inundated | gy maicators | [] Oxidized root | • |
| | | eam, Lake, or Tide | , | [X] Saturated in uppe | r 12 inches | [X] Water-stained | |
| _ | - | ial Photograph | Cago | [] Water marks | | [] Local soil sur | |
| _ | - | er (describe in ren | narks) | Drift lines | | [] FAC-Neutral | • |
| _ | - | , | , | [] Sediment deposits | 3 | Other (explain | |
| Field O | | | ` - | [X] Drainage patterns | | | , |
| | | of Surface Water(ir | • | . 1 | | | |
| | • | o Free Water in Pi | ` ' | | | | |
| | Depth t | o Saturated Soils(| n.): 0 | | | | |
| Remarl | ks | | | | | | |
| | | | | | | | |
| Soils | | | | | | | |
| Depth | Hor. | Matrix | Mottle / 2nd Mot | | Texture, | | |
| (in.) | | Color | Color | Abundance Contra | st Structure | , etc. | |
| 2-0 | O | GLEY2 2.5/5PB | 0 EVD 0/4 | | Cilt | | |
| 0-5 | Α | 2.5YR 2.5/1 | 2.5YR 3/1 | common | Silt | | |
| Hydric | Soils I | ndicators | | | | | |
| [] | Histos | ol | | [] Concretic | ons | | |
| [] | Histic I | Epipedon | | [] High Org | anic % in Surface I | Layer | |
| []: | Sulfidi | c Odor | | [] Organic | Streaking | | |
| [X] | Probal | ole Aquatic Moist F | Regime | [] Listed or | Local Hydric Soils | List | |
| [] | Reduc | ing Conditions | | [] Listed or | National Hydric So | oils List | |
| [X] | Gleye | d or Low-Chroma (| Colors | [] Other (ex | kplain in remarks) | | |
| Unit Na | mo. | | | Taxonomy: | | | |
| Drainag | | ee. | | | vations match map | | |
| | | JJ. | | [] Fleid Obser | vadons matem map | , | |
| Remarks | | | | | | | |
| Rock 6 | | termination | | | | | |
| | | | | [N. T | - Data Car State | .1 | |
| | | tic Vegetation Pres | sent | [X] This Data | a Point is a Wetland | a | |
| , | | ils Present | | | | | |
| | | Hydrology Present | | | | | |
| Remarks | 5 | | | | | | |

| Project/Site: Concord Applicant/Owner: Conc Investigator: Ethan Ste [X] Do normal circumsta [] Have vegetation, soi [] Is the area a potentia Vegetation Dominant Species | ord Associates, LP wart nces exist on the site? s, or hydrology been distu | urbed? | Nama | County: State: N o Communi | ew York ty ID: W64 : Transect 64.1 | Indicator |
|---|---|--|-----------------------------------|---|--|--------------------------------------|
| Herbaceous | | Common | Name | | % Cover | mulcator |
| X Golf Coars Tree X Tsuga can Acer rubru Fagus grai | adensis m | Hemlock, I Maple, Red Beech | | Cowardin Clas | sification: | FACU FAC FAC+ |
| I la admada ama | | | | | | |
| • | s, or Tide Gage graph be in remarks) | Primary Wetland [] Inundated [] Saturated [] Water mar [] Drift lines [] Sediment of the control of t | in upper 12 ind ks deposits | ches | econdary Hydrology [] Oxidized root of the control of the contro | channels leaves ey data est |
| Soils | | | | | | |
| Depth Hor. Matrix | Mottle / 2nd Mo | ottle | | Texture, | | |
| (in.) Color 0-7 A 2.5YR 3, 7-14 B 7.5YR 4, | | Abundance common common few | Contrast | Structure, etc Silt Silt | | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: | | [] Concretions [] High Organic % in Surface Layer [] Organic Streaking [] Listed on Local Hydric Soils List [] Listed on National Hydric Soils List [] Other (explain in remarks) Taxonomy: | | | | |
| Drainage Class: | | [] Field | l Observations | match map | | |
| Remarks | | | | | | |
| Wetland Determin [] Hydrophytic Vegeta [] Hydric Soils Preser [] Wetland Hydrology Remarks Upland | ation Present | []Τ | his Data Point | is a Wetland | | |

Job Number: 100309 City: Thompson

Wetland Data Point: W64(wetland)

| Project/Site: Concord Resort, Thompson, NY | Date: October 28, 2004 |
|--|---|
| Applicant/Owner: Concord Associates, LP | County: Sullivan |
| Investigator: Ethan Stewart | State: New York |
| [X] Do normal circumstances exist on the site? | Community ID: W64 |
| [X] Have vegetation, soils, or hydrology been disturbed? | Station ID: Transect 64.1 |
| [] Is the area a potential problem area? | Plot ID: Wetland |
| Vegetation | |
| Dominant Species Common Name | % Cover Indicator |
| Herbaceous X Thelypteris noveboracensis Fern, New York | FAC |
| Athyrium thelypteroides Fern, Silvery Lady | FAC |
| Tree | FACIL |
| X Tsuga canadensis Hemlock,Eastern Acer rubrum Maple,Red | FACU FAC |
| Fagus grandifolia Beech | FAC+ |
| % Species that are OBL, FACW, or FAC (except FAC-): 50 | Cowardin Classification: |
| Remarks | |
| | |
| Hydrology Primary Wetland Hydrology | Indicators Secondary Hydrology Indicators |
| [] Recorded Data (describe in remarks) [] Inundated | [] Oxidized root channels |
| [] Stream, Lake, or Tide Gage [X] Saturated in upper 12 | 2 inches [X] Water-stained leaves |
| [] Aerial Photograph [X] Water marks | [] Local soil survey data |
| [] Other (describe in remarks) [] Drift lines | [] FAC-Neutral test |
| Field Observations: [] Sediment deposits | [] Other (explain in remarks) |
| Depth of Surface Water(in.): 0 [X] Drainage patterns in v | wetlands |
| Depth to Free Water in Pit(in.): 0 | |
| Depth to Saturated Soils(in.): 0 | |
| | |
| Remarks | |
| Calla | |
| Soils | |
| Depth Hor. Matrix (in.) Color Mottle Color Abundance Contrast | Texture, |
| (in.) Color Color Abundance Contrast 6-0 O GLEY2 2.5/5PB | Structure, etc. |
| 0-6 A 7.5YR 5/3 7.5YR 5/1 common | Sandy Loam |
| 7.5YR 6/8 common | Canay Loans |
| Hydric Soils Indicators | |
| [] Histosol [] Concretions | |
| • • | c % in Surface Layer |
| [] Sulfidic Odor [] Organic Stre | · · · · · · · · · · · · · · · · · · · |
| | ocal Hydric Soils List |
| | ational Hydric Soils List |
| [X] Gleyed or Low-Chroma Colors [] Other (expla | • |
| | arrier remarks) |
| Unit Name: Taxonomy: | |
| Drainage Class: [] Field Observati | ons match map |
| Remarks | |
| Wetland Determination | |
| | oint is a Wetland |
| [X] Hydric Soils Present | UIII IS A VVEIIAIIU |
| [X] Metland Hydrology Present | |
| Remarks | |
| Nemano | |
| | |

| Project/Site: Concord Resort, Thompson Applicant/Owner: Concord Associates, Investigator: Ethan Stewart [X] Do normal circumstances exist on the Individual of the Individual | LP Site? Ceen disturbed? S | Date: October 28, 2004 County: Sullivan State: New York Community ID: W18 Station ID: Transect 18.1 Plot ID: Upland |
|--|---|--|
| Vegetation Dominant Species | Common Name | % Cover Indicator |
| <u>Herbaceous</u> Sphagnum sp. | | |
| Tree X Tsuga canadensis Acer rubrum Fagus grandifolia | Hemlock,Eastern Maple,Red Beech | FACU FAC FAC+ |
| % Species that are OBL, FACW, or FAC (Remarks | except FAC-): 0 Cowa | rdin Classification: |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Remarks | [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | Secondary Hydrology Indicators [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| | | ure, cture, etc. omposed leaves |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: | [] Concretions [] High Organic % in Surf [] Organic Streaking [] Listed on Local Hydric [] Listed on National Hydl [] Other (explain in remar Taxonomy: [] Field Observations match | Soils List ric Soils List ks) |
| Remarks Rock Wetland Determination | . , | |
| [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a We | etland |

Job Number: 100309 City: Thompson

Wetland Data Point: W18(wetland)

| Project/Site: Concord Resort, The Applicant/Owner: Concord Associative Stignary Ethan Stewart [X] Do normal circumstances exist of a Have vegetation, soils, or hydrol of a Have area a potential problem a Vegetation Dominant Species | on the site? ogy been disturbed? rea? | Common Name | Date: October: County: Sulliva State: New Yo Community ID: Station ID: Trar Plot ID: Wetlan | an rk W18 Isect 18.1 | |
|--|---|---|---|--|--|
| X Thelypteris noveborac Sphagnum sp. | ensis | Fern,New York | | FAC | |
| Tree X Acer rubrum X Fagus grandifolia X Tsuga canadensis Betula alleghaniensis % Species that are OBL, FACW, or Remarks | | Maple,Red Beech Hemlock,Eastern Birch,Yellow 75 | Cowardin Classificati | FAC FAC+ FACU FAC | |
| Hydrology | | y Wetland Hydrology In | | ary Hydrology Indicators | |
| [] Recorded Data (describe in rer [] Stream, Lake, or Tide Ga [] Aerial Photograph [] Other (describe in remar Field Observations: Depth of Surface Water(in.): Depth to Free Water in Pit(in Depth to Saturated Soils(in.) | age [X]: [X]: [X]: [X]: [X]: [X]: [X]: [X]: | Inundated Saturated in upper 12 in Water marks Drift lines Sediment deposits Drainage patterns in we | nches [X] W [] Lo | xidized root channels /ater-stained leaves ocal soil survey data AC-Neutral test ther (explain in remarks) | |
| Soils | | | | | |
| (in.) Color (| Mottle / 2nd Mottle Color Abu | ndance Contrast | Texture, Structure, etc. | | |
| 6-10 B 2.5YR 5/4 | SYR 5/8 few | nmon | Silty Clay Silty Clay | | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [X] Sulfidic Odor [X] Probable Aquatic Moist Reg [X] Reducing Conditions [X] Gleyed or Low-Chroma Colo | | [] Concretions [] High Organic % in Surface Layer [] Organic Streaking [] Listed on Local Hydric Soils List [] Listed on National Hydric Soils List [] Other (explain in remarks) | | | |
| Unit Name: Drainage Class: | | Taxonomy: [] Field Observations match map | | | |
| Remarks | | | | | |
| Wetland Determination [X] Hydrophytic Vegetation Preser [X] Hydric Soils Present [X] Wetland Hydrology Present Remarks | ut | [X] This Data Poir | nt is a Wetland | | |

| Applicant/Ov Investigator: [X] Do norm [] Have ve [X] Is the are | ea a potential probl | xist on the site? ydrology been distu | rbed? | | Count State: Comm Statio | October 29, 2004 y: Sullivan New York nunity ID: W15 n ID: Transect 15.3 D: Upland | |
|--|---|---|---|---|---|---|--------------------------------------|
| Vegetatio Dominant | N Species | | Commo | n Name | | % Cover | Indicator |
| Herbaceous | | | Commo | II IVAIIIE | | /₀ COVEI | iliuicatoi |
| X | Thelypteris novel Athyrium thelypte Sphagnum sp. | | Fern,Nev Fern,Silv | w York ery Lady | | | FAC FAC |
| <u>Tree</u> X | Fagus grandifolia | | Beech | | | | FAC+ |
| % Species the Remarks | | V, or FAC (except F | | | Cowardin (| Classification: | |
| Hydrolog | У | | Primary Wetland | d Hydrology Ind | dicators | Secondary Hydrology | v Indicators |
| [] Record [] S [] A [] C Field Obse Dept Dept | led Data (describe Stream, Lake, or Tickerial Photograph Other (describe in r | in remarks) de Gage emarks) r(in.): 0 Pit(in.): >24 | [] Inundated [] Saturated [] Water ma [] Drift lines [] Sediment | d d in upper 12 in arks | ches | [] Oxidized root ([] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | channels leaves ey data est |
| Remarks | | | | | | | |
| Soils | | | | | | | |
| | or. Matrix | Mottle / 2nd Mo | | Cambrast | Texture, | -1- | |
| (in.) 2-0 O | Color 5YR 3/1 | Color | Abundance | Contrast | Structure, | etc. | |
| 0-4 A | 5YR 3/3 | 5YR 4/4 | few | | Silt | | |
| 4-10 B | 5YR 4/4 | 5YR 4/3 | few | | Silt | | |
| [] Hist [] Hist [] Sulf [] Prol [] Red | s Indicators osol ic Epipedon idic Odor oable Aquatic Mois ucing Conditions yed or Low-Chroma | - | [] [] [] [] | Concretions High Organic 9 Organic Streak Listed on Loca Listed on Natic Other (explain | ing I Hydric Soils onal Hydric Sc | List | |
| Unit Name Drainage C | | | Taxono [] Fie | omy: ld Observation | s match map | | |
| Remarks Rock | | | | | | | |
| Wetland [| Determination | n | | | | | |
| [] Hydric | hytic Vegetation P Soils Present d Hydrology Prese | | [] | This Data Poin | t is a Wetland | 1 | |

Job Number: 100309 **Data Form Routine Wetland Determination**

City: Thompson Wetland Data Point: W15(wetland)

| Project/Site: Concord Resort, Thompson, N Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been of [X] Is the area a potential problem area? Vegetation Paginant Species | listurbed? | Date: October 29, 2004 County: Sullivan State: New York Community ID: W15 Station ID: Transect 15.3 Plot ID: Wetland |
|---|--|--|
| Dominant Species Herbaceous | Common Name | % Cover Indicator |
| X Thelypteris noveboracensis Sphagnum sp. Allium tricoccum Polystichum acrostichoides Tree | Fern,New York Leek,Small White Fern,Christmas | FACU+ FACU- |
| X Fagus grandifolia | Beech | FAC+ |
| Tsuga canadensis % Species that are OBL, FACW, or FAC (exce Remarks | Hemlock,Eastern pt FAC-): 100 (| FACU Cowardin Classification: |
| Hydrology | Primary Wetland Hydrology Indica | tors Secondary Hydrology Indicators |
| [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): 2 Depth to Saturated Soils(in.): 1 Remarks | [] Inundated [X] Saturated in upper 12 inche [X] Water marks [] Drift lines [] Sediment deposits [X] Drainage patterns in wetlan |] Local soil survey data] FAC-Neutral test] Other (explain in remarks) |
| Soils | | |
| Depth Hor. Matrix Mottle / 2nd Color Color 6-0 O GLEY2 2.5/5PB 0-4 A 5YR 3/1 | Abundance Contrast | Texture, Structure, etc. |
| 4-8 B 2.5YR 5/4 5YR 5/6 5YR 3/1 | | Silty Clay |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [X] Probable Aquatic Moist Regime [X] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: | [] Concretions [] High Organic % in [] Organic Streaking [] Listed on Local Hy [] Listed on National [] Other (explain in recommodity) | vdric Soils List Hydric Soils List emarks) |
| Drainage Class: Remarks | [] Field Observations m | atch map |
| | | |
| Wetland Determination [X] Hydrophytic Vegetation Present [X] Hydric Soils Present [X] Wetland Hydrology Present Remarks | [X] This Data Point is | a Wetland |

| Applicant/Ov Investigator: [X] Do norma | Concord Resort, T wner: Concord Asso Ethan Stewart al circumstances exis getation, soils, or hydr | t on the site? | 1? | Coun State Comr | October 27, 2004 ty: Sullivan : New York munity ID: W59 on ID: Transect 59.1 | |
|--|--|--|--|--|--|--------------------------------------|
| | ea a potential problem | area? | | Plot I | D: Upland | |
| Vegetatio | | | | | 24.0 | |
| Dominant Herbaceous | Species | | Common Name | | % Cover | Indicator |
| X | Lycopodium dendroi Sphagnum sp. | deum | Clubmoss,Tree-Like | | | FACU |
| <u>Tree</u> X X | Tsuga canadensis Fagus grandifolia | | Hemlock,Eastern Beech | | | FACU FAC+ |
| | nat are OBL, FACW, o | or FAC (except FAC-) | | Cowardin | Classification: | |
| Hydrology | | Drim | ary Wetland Hydrology Indi | icators | Secondary Hydrology | / Indicators |
| [] S [] A [] C Field Obse Depti Depti | ed Data (describe in inteream, Lake, or Tide serial Photograph Other (describe in removations: In of Surface Water (in the to Free Water in Pith to Saturated Soils(in the Control of the | remarks) [Gage [arks) [.): 0 (in.): >24 |] Inundated] Saturated in upper 12 inc] Water marks] Drift lines] Sediment deposits] Drainage patterns in wetla | ches | [] Oxidized root of [] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | channels leaves ey data est |
| Soils | | | | | | |
| Depth Ho | or. Matrix | Mottle / 2nd Mottle | | Texture, | | |
| (in.) 2-0 O | Color 2.5YR 2.5/1 | Color A | bundance Contrast | Structure | , etc. | |
| 2-0 O 0-12 A | 7.5YR 4/4 | 7.5YR 4/3 | common | Silt | | |
| [] Histo [] Histo [] Sulfi [] Prob [] Red | c Epipedon dic Odor pable Aquatic Moist R ucing Conditions ved or Low-Chroma C | | [] Concretions [] High Organic % [] Organic Streakir [] Listed on Local [] Listed on Nation [] Other (explain in the control of the c | ng Hydric Soils nal Hydric S n remarks) | List oils List | |
| | lass. | | [] Fleid Observations | такт тар | | |
| Remarks | | | | | | |
| Wetland D | Determination | | | | | |
| [] Hydric | hytic Vegetation Pres Soils Present d Hydrology Present | ent | [] This Data Point | is a Wetland | d | |

Job Number: 100309 **Data Form Routine Wetland Determination**

City: Thompson Wetland Data Point: W59(wetland)

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been dis [] Is the area a potential problem area? | | Date: October 27, 2004 County: Sullivan State: New York Community ID: W59 Station ID: Transect 59.1 Plot ID: Wetland |
|---|--|--|
| Vegetation Dominant Species | Common Nome | % Cover Indicator |
| Dominant Species Herbaceous | Common Name | % Cover indicator |
| X Panicum longifolium Sphagnum sp. Thelypteris noveboracensis Athyrium thelypteroides | Grass,Panic Fern,New York Fern,Silvery Lady | OBL FAC FAC |
| Tree X Fagus grandifolia Betula alleghaniensis Fraxinus pennsylvanica Tsuga canadensis % Species that are OBL, FACW, or FAC (except Remarks | Beech Birch,Yellow Ash,Green Hemlock,Eastern | FAC+ FAC FACW FACU wardin Classification: |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 1 Depth to Free Water in Pit(in.): 2 Depth to Saturated Soils(in.): 0 Remarks | Primary Wetland Hydrology Indicator [] Inundated [X] Saturated in upper 12 inches [X] Water marks [X] Drift lines [] Sediment deposits [X] Drainage patterns in wetlands | [] Oxidized root channels [X] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| Depth Hor. Matrix Mottle / 2nd | | exture, |
| (in.) Color Color 4-0 O 2.5YR 3/1 | Abundance Contrast St | ructure, etc. |
| 0-12 A 5YR 4/2 5YR 5/8 | | namy Coarse Sand |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [X] Probable Aquatic Moist Regime [X] Reducing Conditions [X] Gleyed or Low-Chroma Colors | [] Concretions [X] High Organic % in S [] Organic Streaking [] Listed on Local Hydr [] Listed on National H [] Other (explain in rem | urface Layer ric Soils List ydric Soils List |
| Linit Name | Tayanamy | |
| Unit Name: Drainage Class: | Taxonomy: [] Field Observations mate | ch map |
| Remarks | | |
| Wetland Determination | | |
| [X] Hydrophytic Vegetation Present[X] Hydric Soils Present[X] Wetland Hydrology PresentRemarks | [X] This Data Point is a | Wetland |

| Applicant/Ow Investigator: [X] Do norma [] Have veg | Concord Resort, Towner: Concord Associated Stewart al circumstances exist extension, soils, or hydronical problems. | ociates, LP at on the site? rology been dis | urbed? | Count State: Comm Station | October 28, 2004 y: Sullivan New York nunity ID: W58 n ID: Transect 58.1 D: Upland | |
|--|--|---|--|------------------------------------|--|--------------------------------------|
| Dominant | II Species | | Common Name | | % Cover | Indicator |
| <u>Shrub</u> | Rhododendron max | imum | Rhododendron,Ro | osebay | 7,000.00 | FAC |
| <u>Tree</u> X | Tsuga canadensis | | Hemlock, Eastern | | | FACU |
| % Species th Remarks | nat are OBL, FACW, | or FAC (except | | Cowardin (| Classification: | |
| Hydrology | У | | Primary Wetland Hydrolo | gy Indicators | Secondary Hydrology | / Indicators |
| []S []A []C Field Obser Depth Depth | ed Data (describe in tream, Lake, or Tide erial Photograph other (describe in removations: h of Surface Water (in h to Free Water Soils (in to Saturated Soils (in tream of Saturated Soils (| Gage .): 0 (in.): >24 | [] Inundated [] Saturated in upper [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns | r 12 inches | [] Oxidized root of [] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | channels leaves ey data est |
| Remarks | | | | | | |
| Soils Depth Ho (in.) | r. Matrix Color | Mottle / 2nd N | lottle Abundance Contra | Texture, st Structure, | etc. | |
| 2-0 O 0-3 A 3-8 B | GLEY2 2.5/5PB 2.5YR 4/3 5YR 4/6 | 2.5YR 5/3 | common | Silt | | |
| []Sulfi []Prob []Redu | | | [] Organic s [] Listed on [] Listed on | anic % in Surface L | List | |
| Unit Name: Drainage C | | | Taxonomy: [] Field Obser | vations match map | | |
| Remarks Rock 10" | | | | | | |
| Wetland D | Determination | | | | | |
| [] Hydric S | hytic Vegetation Pres Soils Present d Hydrology Present | ent | [] This Data | a Point is a Wetland | I | |

Job Number: 100309 City: Thompson

Wetland Data Point: W58(wetland)

| Applicant/Own Investigator: | Concord Resort, Thompson, NY ner: Concord Associates, LP Ethan Stewart | Co St | ate: October 28, 2004 bunty: Sullivan ate: New York |
|--|---|---|--|
| [] Have vege | I circumstances exist on the site? etation, soils, or hydrology been dist a a potential problem area? | urbed? St | ommunity ID: W58 ation ID: Transect 58.1 ot ID: Wetland |
| Vegetation Dominant |) Species | Common Name | % Cover Indicator |
| Herbaceous | Sphagnum sp. | | |
| <u>Shrub</u> | Thelypteris noveboracensis Rhododendron maximum | Fern,New York Rhododendron,Rosebay | FAC FAC |
| | Tsuga canadensis Acer rubrum | Hemlock,Eastern Maple,Red | FACU FAC |
| % Species that Remarks | at are OBL, FACW, or FAC (except I | FAC-): 50 Coward | din Classification: |
| [] St [] Ae [] Ot Field Observ Depth Depth | d Data (describe in remarks) ream, Lake, or Tide Gage erial Photograph ther (describe in remarks) | Primary Wetland Hydrology Indicators [] Inundated [X] Saturated in upper 12 inches [X] Water marks [] Drift lines [] Sediment deposits [X] Drainage patterns in wetlands | Secondary Hydrology Indicators [] Oxidized root channels [X] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | | |
| Depth Hor (in.) 10-0 O 0-8 Ag | . Matrix Mottle / 2nd M Color Color 7.5YR 3/1 5YR 4/1 | Abundance Contrast Struct | ure, etc. nposed leaves |
| [] Sulfid [X] Proba [X] Redu | sol Epipedon | [] Concretions [X] High Organic % in Surfa [] Organic Streaking [] Listed on Local Hydric S [] Listed on National Hydric [] Other (explain in remark | oils List © Soils List |
| Unit Name: Drainage Cla | ass: | Taxonomy: [] Field Observations match n | nap |
| Remarks | | | |
| [X] Hydroph [X] Hydric S | etermination ytic Vegetation Present oils Present Hydrology Present | [X] This Data Point is a Wet | land |

| Project/Site: Concord Resort, Thompson, Napplicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site [X] Have vegetation, soils, or hydrology been [2] Is the area a potential problem area? Vegetation Dominant Species Herbaceous X Golf Coarse Grass | ? disturbed? | Date: October 27, 2004 County: Sullivan State: New York Community ID: W57 Station ID: Transect 57.2 Plot ID: Upland % Cover Indicator |
|--|---|---|
| <u>Tree</u> <u>Pinus strobus</u> % Species that are OBL, FACW, or FAC (exce | Pine,Eastern White ept FAC-): 0 Cowa | FACU FACU FACU FACU FACU FACU FACU FACU |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicators [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | Secondary Hydrology Indicators [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Soils | | |
| Depth Hor. Matrix (in.) Color Color 0-12 A 5YR 5/1 5YR 5/4 5YR 5/3 Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [X] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: Remarks | Abundance Contrast Struc | cture, etc. |
| Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a Wo | etland |

Job Number: 100309 **Data Form Routine Wetland Determination**

City: Thompson Wetland Data Point: W57(wetland)

| Drois -+/C' | to. Concerd Basset 3 | Thompson NV | | D-1- | Ostobor 27, 2004 | |
|--|---|---|--|---|---|----------------|
| | te: Concord Resort, T | | | | October 27, 2004 | |
| | Owner: Concord Ass | ociates, LP | | | ty: Sullivan | |
| | or: Ethan Stewart | at an the site? | | | : New York | |
| | rmal circumstances exis | | rhod? | | nunity ID: W57 | |
| | vegetation, soils, or hyd area a potential problen | 0, | ID C U! | | on ID: Transect 57.2 | |
| • • | | n area? | | Plot I | D: Wetland | |
| Vegetati | | | | | | |
| Dominant | | | Common Name | | % Cover | Indicator |
| <u>Herbaceo</u> | | 4000 | Hairaraaa Tuffad | | | EAC\\\ |
| X X | Deschampsia cespi Phragmites australi | | Hairgrass,Tufted Reed.Common | | | FACW FACW |
| Α | Euonymus americai | | Strawberry-Bush,Am | erican | | FAC |
| | Carex praticola | | Sedge, Northern Mea | | | FAC |
| | Carex laxiflora | | Sedge,Loose-Flower | | | FACU* |
| | Monolepis nuttallian | na | Poverty-Weed, Nuttal | l'S | | NI |
| | Rubus acaulis Aster umbellatus | | Raspberry,Dwarf Aster,Flat-Top White | | | NI FACW |
| Shrub | Aster urribeliatus | | Aster, Flat-Top Wille | | | FACVV |
| X | llex verticillata | | Winterberry,Commor | ì | | FACW+ |
| | Vaccinium amoenui | m | Blueberry, Highbush | | | FACW |
| <u>Tree</u> | 5 | | D' 1 M" " | | | 540 |
| X | Betula alba | | Birch,White | | | FAC+ |
| Х | Acer rubrum Fagus grandifolia | | Maple,Red Beech | | | FAC FAC+ |
| % Species | s that are OBL, FACW, | or FAC (except F | | Cowardin | Classification: | 1 701 |
| Remarks | a. a.o obe, 171011, | I C (SACOPET) | ··- /· ·•• | 23 | | |
| | | | | | | |
| Hydrolo | NOV. | | | | | |
| • | • | | Primary Wetland Hydrology | Indicators | Secondary Hydrology | |
| []Reco | orded Data (describe in | remarks) | [X] Inundated | | [] Oxidized root of | |
| | , | | | | | |
| [|] Stream, Lake, or Tide | Gage | [X] Saturated in upper 12 | ? inches | [X] Water-stained | leaves |
| [| , | Gage | [X] Saturated in upper 12[X] Water marks | ? inches | [X] Water-stained [] Local soil surv | |
|] |] Stream, Lake, or Tide | · · | | ? inches | • • | ey data |
|] [[|] Stream, Lake, or Tide] Aerial Photograph] Other (describe in rem | · · | [X] Water marks | ? inches | [] Local soil surv | ey data est |
| [[[Field Ob |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in remoservations: | narks) | [X] Water marks [X] Drift lines | | [] Local soil surv [] FAC-Neutral te | ey data est |
| [[[Field Ob |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in remoservations: epth of Surface Water(in | narks) | [X] Water marks[X] Drift lines[X] Sediment deposits | | [] Local soil surv [] FAC-Neutral te | ey data est |
| [[[Field Ob De |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in remoservations: epth of Surface Water(in epth to Free Water in Pi | narks) n.): 0 t(in.): 1 | [X] Water marks[X] Drift lines[X] Sediment deposits | | [] Local soil surv [] FAC-Neutral te | ey data est |
| [[[Field Ob De |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in remoservations: epth of Surface Water(in | narks) n.): 0 t(in.): 1 | [X] Water marks[X] Drift lines[X] Sediment deposits | | [] Local soil surv [] FAC-Neutral te | ey data est |
| [[[Field Ob De De |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in remoservations: epth of Surface Water(in epth to Free Water in Picepth to Saturated Soils(in page 1) | narks) n.): 0 t(in.): 1 | [X] Water marks[X] Drift lines[X] Sediment deposits | | [] Local soil surv [] FAC-Neutral te | ey data est |
| [[[Field Ob De |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in remoservations: epth of Surface Water(in epth to Free Water in Picepth to Saturated Soils(in page 1) | narks) n.): 0 t(in.): 1 | [X] Water marks[X] Drift lines[X] Sediment deposits | | [] Local soil surv [] FAC-Neutral te | ey data est |
| Field Ob De De Remarks |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in remoservations: epth of Surface Water(in epth to Free Water in Picepth to Saturated Soils(in page 1) | narks) n.): 0 t(in.): 1 | [X] Water marks[X] Drift lines[X] Sediment deposits | | [] Local soil surv [] FAC-Neutral te | ey data est |
| Field Ob De De Remarks |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in remoservations: epth of Surface Water(in epth to Free Water in Piepth to Saturated Soils(in second control of the second control of t | narks) n.): 0 t(in.): 1 n.): 1 | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in v | wetlands | [] Local soil surv [] FAC-Neutral te | ey data est |
| Field Ob De De Remarks Soils Depth |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in remoservations: epth of Surface Water (in epth to Free Water in Piepth to Saturated Soils(in second secon | narks) a.): 0 t(in.): 1 n.): 1 | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in v | wetlands Texture, | [] Local soil surv [] FAC-Neutral to [] Other (explain | ey data est |
| Field Ob De De Remarks Soils Depth (in.) |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in removervations: epth of Surface Water (in epth to Free Water in Piepth to Saturated Soils(in second secon | narks) n.): 0 t(in.): 1 n.): 1 | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in v | wetlands Texture, Structure | [] Local soil surv [] FAC-Neutral to [] Other (explain | ey data est |
| Field Ob De De Remarks Soils Depth (in.) 0-6 |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in removervations: epth of Surface Water (in epth to Free Water in Piepth to Saturated Soils(in second secon | Mottle / 2nd Mo | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in v | wetlands Texture, Structure Silty Clay | [] Local soil surv [] FAC-Neutral to [] Other (explain | ey data est |
| Field Ob De De Remarks Soils Depth (in.) 0-6 |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in removervations: epth of Surface Water (in epth to Free Water in Piepth to Saturated Soils(in second secon | narks) a.): 0 t(in.): 1 n.): 1 | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in v | wetlands Texture, Structure | [] Local soil surv [] FAC-Neutral to [] Other (explain | ey data est |
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| Field Ob De De De Remarks Soils Depth (in.) 0-6 6-14 Hydric S |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in remover and the content of Surface Water (in epth to Free Water in Prepth to Saturated Soils(in second of Saturated Soils) Hor. Matrix Color A 7.5YR 4/1 B 5YR 5/1 Soils Indicators | Mottle / 2nd Mo | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in vertice Ottle Abundance Contrast common | Texture, Structure Silty Clay Sand | [] Local soil surv [] FAC-Neutral te [] Other (explain | ey data est |
| Field Ob De De De Remarks Soils Depth (in.) 0-6 6-14 Hydric S [] H [] H |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in remover of the control of the c | Mottle / 2nd Mo | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in vertice Ottle Abundance Contrast common [] Concretions | Texture, Structure Silty Clay Sand | [] Local soil surv [] FAC-Neutral te [] Other (explain | ey data est |
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| Field Ob De De De Remarks Soils Depth (in.) 0-6 6-14 Hydric S [] H [] H [X] S [X] P [X] R |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in remoservations: epth of Surface Water (in epth to Free Water in Picepth to Saturated Soils(in septh | Mottle / 2nd Mo Color GLEY2 6/5B | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in variable. Abundance | Texture, Structure Silty Clay Sand c % in Surface leaking cal Hydric Soils | [] Local soil surv [] FAC-Neutral to [] Other (explain) , etc. | ey data est |
| Field Ob De De De Remarks Soils Depth (in.) 0-6 6-14 Hydric S [] H [] H [X] Si [X] Pi [X] R [X] G |] Stream, Lake, or Tide] Aerial Photograph] Other (describe in remoservations: epth of Surface Water (in epth to Free Water in Prepth to Saturated Soils(in septh | Mottle / 2nd Mo Color GLEY2 6/5B | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in v ottle Abundance Contrast common [] Concretions [] High Organic [] Organic Stree [] Listed on Lo [] Listed on Na [] Other (explain | Texture, Structure Silty Clay Sand c % in Surface leaking cal Hydric Soils | [] Local soil surv [] FAC-Neutral to [] Other (explain) , etc. | ey data est |
| Field Ob De De De Remarks Soils Depth (in.) 0-6 6-14 Hydric S [] H [] H [X] S [X] P [X] R [X] G Unit Nam | J Stream, Lake, or Tide J Aerial Photograph Other (describe in remoservations: Lepth of Surface Water (in lepth to Free Water in Present to Saturated Soils (in lepth | Mottle / 2nd Mo Color GLEY2 6/5B | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in v ottle Abundance Contrast common [] Concretions [] High Organic [] Organic Stree [] Listed on Lo [] Listed on Na [] Other (explainable) Taxonomy: | Texture, Structure Silty Clay Sand c % in Surface leaking cal Hydric Soils attional Hydric Sciin in remarks) | [] Local soil surv [] FAC-Neutral te [] Other (explain , etc. Layer List bils List | ey data est |
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| Field Ob De De De Remarks Soils Depth (in.) 0-6 6-14 Hydric S [] H [] H [X] S [X] P [X] R [X] G Unit Nam | J Stream, Lake, or Tide J Aerial Photograph Other (describe in remoservations: Lepth of Surface Water (in lepth to Free Water in Present to Saturated Soils (in lepth | Mottle / 2nd Mo Color GLEY2 6/5B | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in v ottle Abundance Contrast common [] Concretions [] High Organic [] Organic Stree [] Listed on Lo [] Listed on Na [] Other (explainable) Taxonomy: | Texture, Structure Silty Clay Sand c % in Surface leaking cal Hydric Soils attional Hydric Scilin in remarks) | [] Local soil surv [] FAC-Neutral te [] Other (explain , etc. Layer List bils List | ey data est |
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| Field Ob De De De Remarks Soils Depth (in.) 0-6 6-14 Hydric S [] H [] H [X] S [X] P [X] R [X] G Unit Nan Drainage Remarks Wetland | J Stream, Lake, or Tide J Aerial Photograph Other (describe in remoservations: Lepth of Surface Water (incepth to Free Water in Present to Saturated Soils(incepth soils Indicators Incepth to Saturated Soils Indicators Incepth Soils Indicators Incepth Saturated Incepth Saturated Soils Incep | Mottle / 2nd Mo Color GLEY2 6/5B | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in variations [X] Carrier lines [X] Drainage patterns in variations [X] Drainage patterns in varia | Texture, Structure Silty Clay Sand c % in Surface leaking local Hydric Soils ational Hydric Sin in remarks) ons match map | [] Local soil surv [] FAC-Neutral to [] Other (explain) , etc. Layer List bils List | ey data est |
| Field Ob De De De Remarks Soils Depth (in.) 0-6 6-14 Hydric S [] H [] H [X] S [X] P [X] R [X] G Unit Nan Drainage Remarks Wetland [X] Hydr | Stream, Lake, or Tide Aerial Photograph Other (describe in remoservations: Eapth of Surface Water (in Eapth to Free Water in Present to Saturated Soils(in Section 1988) Hor. Matrix Color A 7.5YR 4/1 B 5YR 5/1 Soils Indicators District Epipedon Endificity Codor Corobable Aquatic Moist Reducing Conditions Eleved or Low-Chroma Come: Ele Class: Hore Codor Company Conditions Company Conditions Company Com | Mottle / 2nd Mo Color GLEY2 6/5B | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in v ottle Abundance Contrast common [] Concretions [] High Organic [] Organic Stree [] Listed on Lo [] Listed on Na [] Other (explainable) Taxonomy: | Texture, Structure Silty Clay Sand c % in Surface leaking local Hydric Soils ational Hydric Sin in remarks) ons match map | [] Local soil surv [] FAC-Neutral to [] Other (explain) , etc. Layer List bils List | ey data est |
| Field Ob De De De Remarks Soils Depth (in.) 0-6 6-14 Hydric S [] H [] H [X] S [X] P [X] R [X] G Unit Nan Drainage Remarks Wetland [X] Hydr [X] Hydr [X] Hydr | Stream, Lake, or Tide Aerial Photograph Other (describe in remoservations: Eapth of Surface Water (in Eapth to Free Water in Prepent to Saturated Soils(in Section 1988) Hor. Matrix Color A 7.5YR 4/1 B 5YR 5/1 Soils Indicators District Epipedon Eaction Codor District Epipedon Eaction | Mottle / 2nd Mo Color GLEY2 6/5B | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in variations [X] Carrier lines [X] Drainage patterns in variations [X] Drainage patterns in varia | Texture, Structure Silty Clay Sand c % in Surface leaking local Hydric Soils ational Hydric Sin in remarks) ons match map | [] Local soil surv [] FAC-Neutral to [] Other (explain) , etc. Layer List bils List | ey data est |
| Field Ob De De De Remarks Soils Depth (in.) 0-6 6-14 Hydric S []H [X]S [X]P [X]R [X]G Unit Nan Drainage Remarks Wetland [X] Hydr [X] Hydr [X] Wetla | Stream, Lake, or Tide Aerial Photograph Other (describe in remoservations: Eapth of Surface Water (in Eapth to Free Water in Present to Saturated Soils(in Section 1988) Hor. Matrix Color A 7.5YR 4/1 B 5YR 5/1 Soils Indicators District Epipedon Endificity Codor Corobable Aquatic Moist Reducing Conditions Eleved or Low-Chroma Come: Ele Class: Hore Codor Company Conditions Company Conditions Company Com | Mottle / 2nd Mo Color GLEY2 6/5B | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in variations [X] Carrier lines [X] Drainage patterns in variations [X] Drainage patterns in varia | Texture, Structure Silty Clay Sand c % in Surface leaking local Hydric Soils ational Hydric Sin in remarks) ons match map | [] Local soil surv [] FAC-Neutral to [] Other (explain) , etc. Layer List bils List | ey data est |
| Field Ob De De De Remarks Soils Depth (in.) 0-6 6-14 Hydric S [] H [] H [X] S [X] P [X] R [X] G Unit Nan Drainage Remarks Wetland [X] Hydr [X] Hydr [X] Hydr | Stream, Lake, or Tide Aerial Photograph Other (describe in remoservations: Eapth of Surface Water (in Eapth to Free Water in Prepent to Saturated Soils(in Section 1988) Hor. Matrix Color A 7.5YR 4/1 B 5YR 5/1 Soils Indicators District Epipedon Eaction Codor District Epipedon Eaction | Mottle / 2nd Mo Color GLEY2 6/5B | [X] Water marks [X] Drift lines [X] Sediment deposits [X] Drainage patterns in variations [X] Carrier lines [X] Drainage patterns in variations [X] Drainage patterns in varia | Texture, Structure Silty Clay Sand c % in Surface leaking local Hydric Soils ational Hydric Sin in remarks) ons match map | [] Local soil surv [] FAC-Neutral to [] Other (explain) , etc. Layer List bils List | ey data est |

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been distance [X] Is the area a potential problem area? Vegetation | | Date: October 27, 2004 County: Sullivan State: New York Community ID: W57 Station ID: Transect 57.1 Plot ID: Upland |
|---|---|--|
| Dominant Species | Common Name | % Cover Indicator |
| Herbaceous X Golf Coarse Grass Tree Pinus strobus % Species that are OBL, FACW, or FAC (except Remarks | Pine,Eastern White FAC-): 0 Co | FACU wardin Classification: |
| Hydrology | Primary Wetland Hydrology Indicato | rs Secondary Hydrology Indicators |
| [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): 10 Depth to Saturated Soils(in.): 3 | [] Inundated [X] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) |
| Remarks Soils | | |
| Depth Hor. Matrix Mottle / 2nd N (in.) Color Color | | exture, ructure, etc. |
| (in.) Color Color 1-0 O 5YR 3/1 0-12 A 7.5YR 4/1 GLEY1 5/5G | Sa | and decomposed leaves and |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [X] Gleyed or Low-Chroma Colors | [] Concretions [] High Organic % in S [] Organic Streaking [] Listed on Local Hydr [] Listed on National H [] Other (explain in ren | ric Soils List ydric Soils List |
| Unit Name: | Taxonomy: | |
| Drainage Class: | [] Field Observations mat | ch map |
| Remarks | | |
| Wetland Determination [] Hydrophytic Vegetation Present [X] Hydric Soils Present [X] Wetland Hydrology Present Remarks Golf Coarse Area | [] This Data Point is a | Wetland |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W57(wetland)

| Project/Site: | Concord Resort, Th | nompson, NY | | Date: October 27, 2004 | |
|---|--|---|---|--|---------------|
| | wner: Concord Asso | - | | County: Sullivan | |
| Investigator | Ethan Stewart | | | State: New York | |
| [X] Do norm | nal circumstances exist | on the site? | | Community ID: W57 | |
| [] Have ve | getation, soils, or hydro | ology been disturbed | ? | Station ID: Transect 57.1 | |
| | ea a potential problem | | | Plot ID: Wetland | |
| Vegetatio | | | | | |
| Dominant | Species | | Common Name | % Cover | Indicator |
| Herbaceous | | | Common Name | % Cover | indicator |
| X | <u>s</u> Monolepis nuttalliana | 9 | Poverty-Weed, Nuttall'S | | NI |
| X | Aster umbellatus | | Aster,Flat-Top White | | FACW |
| | Euonymus american | us | Strawberry-Bush, American | | FAC |
| | Carex laevivaginata | | Sedge,Smooth-Sheath | | OBL |
| | Carex laxiflora | | Sedge,Loose-Flowered | | FACU* |
| | Vahlodea atropurpur | ea | Hairgrass, Mountain | | FACW |
| Shrub | Rubus acaulis | | Raspberry,Dwarf | | NI |
| X | llex verticillata | | Winterberry, Common | | FACW+ |
| Λ | Vaccinium amoenum |) | Blueberry,Highbush | | FACW |
| Tree | racoman amount | • | 2.0000., i. i.g 2001. | | |
| X | Betula alba | | Birch,White | | FAC+ |
| Χ | Acer rubrum | | Maple,Red | | FAC |
| | Fagus grandifolia | | Beech | | FAC+ |
| | hat are OBL, FACW, o | r FAC (except FAC-) | : 80 C | owardin Classification: | |
| Remarks | | | | | |
| | | | | | |
| Hydrolog | V | Prim | ary Wetland Hydrology Indicat | ors Secondary Hydrolog | v Indicators |
| • | ded Data (describe in r | | Inundated | [] Oxidized root | • |
| | | | • | • • | |
| | Stream, Lake, or Tide (| - | [] Saturated in upper 12 inches | | |
| | Aerial Photograph | _ | [] Water marks | [] Local soil sur | • |
| [](| Other (describe in rema | , - |] Drift lines | [] FAC-Neutral | |
| Field Obse | ervations: | [|] Sediment deposits | [] Other (explain | n in remarks) |
| | th of Surface Water(in. | /· 0 [) | In Drainage patterns in wetland | ds | |
| • | • | , | | | |
| • | th to Free Water in Pit(| • | | | |
| Dep | th to Saturated Soils(in | i.): 1 | | | |
| Remarks | | | | | |
| | | | | | |
| | | | | | |
| Soils | | | | | |
| | or Matrix | Mottle / 2nd Mottle | - | - Ceytura | |
| Depth Ho | or. Matrix Color | Mottle / 2nd Mottle | | Fexture, | |
| Depth Ho | Color | | | Fexture, Structure, etc. | |
| Depth Ho (in.) 1-0 O | Color GLEY2 2.5/5PB | Color A | bundance Contrast S | Structure, etc. | |
| Depth Ho (in.) 1-0 O 0-4 A | Color GLEY2 2.5/5PB 10YR 4/1 | Color A 10YR 6/1 f | bundance Contrast S ew S | Structure, etc. | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 | Color A 10YR 6/1 f | bundance Contrast S ew S | Structure, etc. | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B | Color GLEY2 2.5/5PB 10YR 4/1 | Color A 10YR 6/1 f | bundance Contrast S ew S | Structure, etc. | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 | Color A 10YR 6/1 f | bundance Contrast S ew S | Structure, etc. | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B Hydric Soi | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 | Color A 10YR 6/1 f | bundance Contrast S ew S ew S | Structure, etc. Sand Silty Clay | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B Hydric Soi [] Hist | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 ils Indicators tosol tic Epipedon | Color A 10YR 6/1 f | ew Sew S [] Concretions [] High Organic % in Secure 2. | Structure, etc. Sand Silty Clay | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B Hydric Soi [] Hist [] Hist [X] Sulf | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 10YR 4/1 ds Indicators tosol tic Epipedon fidic Odor | Color A 10YR 6/1 fr 10YR 6/1 fr | ew Sew S [] Concretions [] High Organic % in [] Organic Streaking | Structure, etc. Sand Silty Clay Surface Layer | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B Hydric Soi [] Hist [] Hist [X] Sult [X] Pro | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 Ils Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist Re | Color A 10YR 6/1 fr 10YR 6/1 fr | ew S Ew S [] Concretions [] High Organic % in [] Organic Streaking [] Listed on Local Hyden | Structure, etc. Sand Silty Clay Surface Layer dric Soils List | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B Hydric Soi [] Hist [] Hist [X] Sult [X] Pro [X] Rec | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 Ils Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist Reducing Conditions | Color A 10YR 6/1 fr 10YR 6/1 fr 10YR 6/1 fr | Evenue of the contract of the | Structure, etc. Sand Silty Clay Surface Layer dric Soils List Hydric Soils List | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B Hydric Soi [] Hist [] Hist [X] Sult [X] Pro [X] Rec | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 Ils Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist Re | Color A 10YR 6/1 fr 10YR 6/1 fr 10YR 6/1 fr | ew S Ew S [] Concretions [] High Organic % in [] Organic Streaking [] Listed on Local Hyden | Structure, etc. Sand Silty Clay Surface Layer dric Soils List Hydric Soils List | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B Hydric Soi [] Hist [] Hist [X] Sult [X] Pro [X] Rec | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 10S Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist Reducing Conditions yed or Low-Chroma Co | Color A 10YR 6/1 fr 10YR 6/1 fr 10YR 6/1 fr | Evenue of the contract of the | Structure, etc. Sand Silty Clay Surface Layer dric Soils List Hydric Soils List | |
| Depth Horizon | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 10S Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist Reducing Conditions yed or Low-Chroma Co | Color A 10YR 6/1 fr 10YR 6/1 fr 10YR 6/1 fr | ew Sew Sew Sew Sew Sew Sew Sew Sew Sew S | Structure, etc. Sand Silty Clay Surface Layer dric Soils List Hydric Soils List marks) | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B Hydric Soi [] Hist [] Hist [X] Sulf [X] Pro [X] Rec [X] Gle | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 10S Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist Reducing Conditions yed or Low-Chroma Co | Color A 10YR 6/1 fr 10YR 6/1 fr 10YR 6/1 fr | ew S [] Concretions [] High Organic % in [] Organic Streaking [] Listed on Local Hyd [] Listed on National [] Other (explain in re | Structure, etc. Sand Silty Clay Surface Layer dric Soils List Hydric Soils List marks) | |
| Depth Horizon | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 10S Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist Reducing Conditions yed or Low-Chroma Co | Color A 10YR 6/1 fr 10YR 6/1 fr 10YR 6/1 fr | ew Sew Sew Sew Sew Sew Sew Sew Sew Sew S | Structure, etc. Sand Silty Clay Surface Layer dric Soils List Hydric Soils List marks) | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B Hydric Soi [] Hist [X] Sult [X] Pro [X] Rec [X] Gle Unit Name Drainage C | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 10YR 4/1 Its Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist Reducing Conditions yed or Low-Chroma Co | Color A 10YR 6/1 fr 10YR 6/1 fr 10YR 6/1 fr | ew Sew Sew Sew Sew Sew Sew Sew Sew Sew S | Structure, etc. Sand Silty Clay Surface Layer dric Soils List Hydric Soils List marks) | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B Hydric Soi [] Hist [X] Sulf [X] Pro [X] Rec [X] Gle Unit Name Drainage G Remarks | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 10YR 4/1 Its Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist Reducing Conditions yed or Low-Chroma Color Class: Determination | Color A 10YR 6/1 fr 10YR 6/1 fr egime plors | ew Sew Sew Sew Sew Sew Sew Sew Sew Sew S | Structure, etc. Sand Silty Clay Surface Layer dric Soils List Hydric Soils List marks) atch map | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B Hydric Soi [] Hist [X] Sulf [X] Pro [X] Rec [X] Gle Unit Name Drainage G Remarks Wetland I [X] Hydrop | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 10YR 4/1 Its Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist Reducing Conditions yed or Low-Chroma Color Class: Determination Onlytic Vegetation Prese | Color A 10YR 6/1 fr 10YR 6/1 fr egime plors | ew Sew Sew Sew Sew Sew Sew Sew Sew Sew S | Structure, etc. Sand Silty Clay Surface Layer dric Soils List Hydric Soils List marks) atch map | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B Hydric Soi [] Hist [] Hist [X] Sulf [X] Pro [X] Rec [X] Gle Unit Name Drainage C Remarks Wetland I [X] Hydrop [X] Hydrop [X] Hydric | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 10YR 4/1 Its Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist Reducing Conditions yed or Low-Chroma Color Class: Determination Onytic Vegetation Prese Soils Present | Color A 10YR 6/1 fr 10YR 6/1 fr egime plors | ew Sew Sew Sew Sew Sew Sew Sew Sew Sew S | Structure, etc. Sand Silty Clay Surface Layer dric Soils List Hydric Soils List marks) atch map | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B Hydric Soi [] Hist [] Hist [X] Sulf [X] Pro [X] Rec [X] Gle Unit Name Drainage C Remarks Wetland I [X] Hydrop [X] Hydrop [X] Hydric | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 10YR 4/1 Its Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist Reducing Conditions yed or Low-Chroma Color Class: Determination Onlytic Vegetation Prese | Color A 10YR 6/1 fr 10YR 6/1 fr egime plors | ew Sew Sew Sew Sew Sew Sew Sew Sew Sew S | Structure, etc. Sand Silty Clay Surface Layer dric Soils List Hydric Soils List marks) atch map | |
| Depth Ho (in.) 1-0 O 0-4 A 4-10 B Hydric Soi [] Hist [] Hist [X] Sulf [X] Pro [X] Rec [X] Gle Unit Name Drainage C Remarks Wetland I [X] Hydrop [X] Hydrop [X] Hydric | Color GLEY2 2.5/5PB 10YR 4/1 10YR 4/1 10YR 4/1 Its Indicators tosol tic Epipedon fidic Odor bable Aquatic Moist Reducing Conditions yed or Low-Chroma Color Class: Determination Onytic Vegetation Prese Soils Present | Color A 10YR 6/1 fr 10YR 6/1 fr egime plors | ew Sew Sew Sew Sew Sew Sew Sew Sew Sew S | Structure, etc. Sand Silty Clay Surface Layer dric Soils List Hydric Soils List marks) atch map | |

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been dist [X] Is the area a potential problem area? | turbed? | Date: October 27, 2004 County: Sullivan State: New York Community ID: W55 Station ID: Transect 55.1 Plot ID: Upland |
|---|--|--|
| Vegetation Dominant Species | Common Name | % Cover Indicator |
| Herbaceous | Common Nume | 70 GOVEL MIGIGATOR |
| X Celastrus scandens Juniperus virginiana Sphagnum sp. | Bitter-Sweet,American Cedar,Eastern Red | FACU- FACU |
| <u>Tree</u> | Monlo Curor | FACU- |
| X Acer saccharum Pinus strobus Acer rubrum | Maple,Sugar Pine,Eastern White Maple,Red | FACU- FACU FAC |
| % Species that are OBL, FACW, or FAC (except Remarks | | owardin Classification: |
| Hydrology | Primary Wetland Hydrology Indicato | rs Secondary Hydrology Indicators |
| [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | [] Oxidized root channels[] Water-stained leaves[] Local soil survey data[] FAC-Neutral test[] Other (explain in remarks) |
| Soils | | |
| Depth Hor. Matrix Mottle / 2nd N | Mottle Te | exture, |
| (in.) Color Color | | tructure, etc. |
| 0-2 A 5YR 3/1 2-6 B 7.5YR 3/2 | Si Si | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Prainage Class: | [] Concretions [] High Organic % in S [] Organic Streaking [] Listed on Local Hydr [] Listed on National H [] Other (explain in ren Taxonomy: [] Field Observations mat | ric Soils List lydric Soils List narks) |
| Drainage Class: Remarks | [] Field Observations mat | ch map |
| Rock 8" Wetland Determination | | |
| [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a | Wetland |

Job Number: **100309** City: **Thompson**

Wetland Data Point: W55(wetland)

| Project/Site: Concord Resort, Inompson, | , NY Da | ate: October 27, 2004 |
|--|---|--|
| Applicant/Owner: Concord Associates, LF | Co | ounty: Sullivan |
| Investigator: Ethan Stewart | St | tate: New York |
| [X] Do normal circumstances exist on the sit | e? Co | ommunity ID: W55 |
| [X] Have vegetation, soils, or hydrology beer | | tation ID: Transect 55.1 |
| [X] Is the area a potential problem area? | | ot ID: Wetland |
| | | or is. Woulding |
| Vegetation | | |
| Dominant Species | Common Name | % Cover Indicator |
| <u>Herbaceous</u> | December 1Manual Norther IIIO | N.I. |
| X Monolepis nuttalliana | Poverty-Weed, Nuttall'S | NI FACIAL |
| X Aster umbellatus | Aster, Flat-Top White | FACW |
| Plantago lanceolata | Plantain, English | UPL |
| Juncus roemeranus | Rush, Needlegrass | OBL FACW |
| Vahlodea atropurpurea Solidago austrina | Hairgrass,Mountain Golden-Rod | OBL |
| Euonymus americanus | Strawberry-Bush,American | FAC |
| Thelypteris noveboracensis | Fern, New York | FAC |
| Shrub | . c,c | |
| X Rubus wheeleri | Dewberry | FACW |
| X Ilex verticillata | Winterberry,Common | FACW+ |
| Vaccinium amoenum | Blueberry,Highbush | FACW |
| <u>Tree</u> | , | |
| X Pinus strobus | Pine, Eastern White | FACU |
| Fagus grandifolia | Beech | FAC+ |
| % Species that are OBL, FACW, or FAC (ex | cept FAC-): 60 Cowar | din Classification: |
| Remarks | | |
| | | |
| Hydrology | Duiman ma Martin and the start of the start | Consender the dealer to the |
| | Primary Wetland Hydrology Indicators | Secondary Hydrology Indicators |
| [] Recorded Data (describe in remarks) | [] Inundated | [] Oxidized root channels |
| [] Stream, Lake, or Tide Gage | [X] Saturated in upper 12 inches | [X] Water-stained leaves |
| [] Aerial Photograph | [X] Water marks | [] Local soil survey data |
| [] Other (describe in remarks) | Drift lines | FAC-Neutral test |
| [](| [] Sediment deposits | Other (explain in remarks) |
| Field Observations: | | [] Other (explain in remains) |
| Depth of Surface Water(in.): 1 | [] Drainage patterns in wetlands | |
| Depth to Free Water in Pit(in.): 2 | | |
| Depth to Saturated Soils(in.): 0 | | |
| Depth to Catalated Collo(III.). | | |
| Remarks | | |
| | | |
| Soils | | |
| | and Mottle | ro |
| | 2nd Mottle Texture | • |
| (in.) Color Color 0-8 A 7.5YR 3/2 | | ture, etc. |
| 0-8 A 7.5YR 3/2 | Silt | |
| | | |
| Hydric Soils Indicators | | |
| [] Histosol | [] Concretions | |
| | | oo Layer |
| [] Histic Epipedon | [] High Organic % in Surfa | LE Layer |
| [X] Sulfidic Odor | [] Organic Streaking | |
| [] Probable Aquatic Moist Regime | [] Listed on Local Hydric S | |
| [] Reducing Conditions | [] Listed on National Hydri | c Soils List |
| [] Gleyed or Low-Chroma Colors | [] Other (explain in remark | ss) |
| | | • |
| Unit Name: | Taxonomy: | |
| Drainage Class: | [] Field Observations match n | nap |
| · · | | • |
| Remarks | | |
| Watland Datarmination | | |
| Wetland Determination | | |
| [X] Hydrophytic Vegetation Present | [X] This Data Point is a Wet | tland |
| [X] Hydric Soils Present | | |
| [X] Wetland Hydrology Present | | |
| Remarks | | |
| | | |

Data Form Routine Wetland Determination

| Project/Site: Concord Resort, Thompson, NY | | Date: October 27, 2004 | |
|---|--|---------------------------|--------------------------------|
| Applicant/Owner: Concord Associates, LP | | County: Sullivan | |
| Investigator: Ethan Stewart | | State: New York | |
| [X] Do normal circumstances exist on the site? | | Community ID: W54 | |
| [] Have vegetation, soils, or hydrology been disturbed | ed? | Station ID: Transect 54.1 | |
| [X] Is the area a potential problem area? | | Plot ID: Upland | |
| Vegetation | | | |
| Dominant Species | Common Name | % Cover | Indicator |
| Herbaceous X Phalaris arundinacea X Carex albolutescens Solidago austrina Cynodon dactylon Carex laxiflora Vahlodea atropurpurea Tree X Fraxinus pennsylvanica % Species that are OBL, FACW, or FAC (except FAC Remarks | Grass,Reed Canary Sedge,Greenish-White Golden-Rod Grass,Bermuda Sedge,Loose-Flowered Hairgrass,Mountain Ash,Green -): 100 Co | wardin Classification: | FACW+ FACW OBL FACU FACU* FACW |
| Hydrology Pri. | | | |
| | mary Wetland Hydrology Indicato [] Inundated | , , , | |
| , | Saturated in upper 12 inches | [] Oxidized root | |
| | Water marks | [] Local soil surv | |
| | Drift lines | [] FAC-Neutral to | • |
| | Sediment deposits | [] Other (explain | |
| Field Observations: | Drainage patterns in wetlands | , , | , |
| Depth of Surface Water(in.): 0 | | | |
| Depth to Free Water in Pit(in.): >24 | | | |
| Depth to Saturated Soils(in.): >24 | | | |
| Remarks | | | |
| Soils | | | |
| Depth Hor. Matrix Mottle / 2nd Mottle | e Te | exture, | |
| | | ructure, etc. | |
| 0-3 A 5YR 3/3 | Si | lt | |
| 3-8 B 2.5YR 3/3 | Si | lt | |
| Hydric Soils Indicators | | | |
| [] Histosol | [] Concretions | | |
| [] Histic Epipedon | [] High Organic % in S | urface Laver | |
| Sulfidic Odor | [] Organic Streaking | undoo Layor | |
| [] Probable Aquatic Moist Regime | [] Listed on Local Hydr | ric Soils List | |
| [] Reducing Conditions | [] Listed on National H | | |
| [] Gleyed or Low-Chroma Colors | Other (explain in ren | | |
| | | ·=···=/ | |
| Unit Name: | Taxonomy: | -h | |
| Drainage Class: | [] Field Observations mat | ch map | |
| Remarks Rock 8" | | | |
| Wetland Determination | | | |
| [] Hydrophytic Vegetation Present | [] This Data Point is a | Wetland | |
| [] Hydric Soils Present | | | |
| [] Wetland Hydrology Present | | | |
| Remarks | | | |
| Upland | | | |
| | | | |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W54(wetland)

| Project/Site: Concord Resc | rt, Inompson, NY | | Dat | ie: October 27, 2004 | |
|----------------------------------|---------------------|------------------------------------|-------------------|------------------------|---------------|
| Applicant/Owner: Concord | Associates, LP | | Cou | unty: Sullivan | |
| Investigator: Ethan Stewart | | | Sta | te: New York | |
| [X] Do normal circumstances | exist on the site? | | Cor | mmunity ID: W54 | |
| [X] Have vegetation, soils, or | hvdrology been dis | turbed? | Sta | tion ID: Transect 54.1 | |
| [] Is the area a potential pro | | | | t ID: Wetland | |
| | 2.0 0.00. | | | (ID. Wolland | |
| Vegetation | | | | | |
| Dominant Species | | Common Name | | % Cover | Indicator |
| Herbaceous | | Crees David Consu. | | | EAC)A/. |
| Phalaris arundi | nacea | Grass,Reed Canary Bluegrass,Low | | | FACW+ |
| Poa alpigena Solidago austrii | 20 | Golden-Rod | | | FACW- OBL |
| Sparganium en | | Burreed, Narrow-Lea | of | | OBL |
| Phragmites aus | | Reed,Common | 11 | | FACW |
| Carex laxiflora | trans | Sedge,Loose-Flowe | red | | FACU* |
| Dipsacus sylve | stris | Teasel | ica | | NI |
| Vahlodea atrop | | Hairgrass, Mountain | | | FACW |
| Aster umbellatu | | Aster, Flat-Top White |) | | FACW |
| % Species that are OBL, FAC | | | | in Classification: | |
| Remarks | | , | | | |
| | | | | | |
| I localma I a ano | | | | | |
| Hydrology | | Primary Wetland Hydrology | <i>Indicators</i> | Secondary Hydrolog | y Indicators |
| [] Recorded Data (describ | e in remarks) | []Inundated | | [] Oxidized root | channels |
| [] Stream, Lake, or | , | [X] Saturated in upper 12 | 2 inches | [X] Water-stained | |
| [] Aerial Photograph | • | [X] Water marks | | [] Local soil sur | |
| | | • • | | | • |
| [] Other (describe in | remarks) | [] Drift lines | | [] FAC-Neutral t | |
| Field Observations: | | [] Sediment deposits | | [] Other (explain | n in remarks) |
| Depth of Surface Wat | er(in). O | [X] Drainage patterns in | wetlands | | |
| • | ` ' | | | | |
| Depth to Free Water | | | | | |
| Depth to Saturated Se | oils(in.): 0 | | | | |
| Remarks | | | | | |
| Remarks | | | | | |
| 0-11- | | | | | |
| Soils | | | | | |
| Depth Hor. Matrix | Mottle / 2nd I | Mottle | Texture | , | |
| (in.) Color | Color | Abundance Contrast | Structu | re, etc. | |
| 0-12 A 2.5YR 4/2 | 10R 5/2 | common | Sandy I | | |
| | | | | | |
| | | | | | |
| Hydric Soils Indicators | | | | | |
| [] Histosol | | [] Concretions | 3 | | |
| [] Histic Epipedon | | [] High Organ | | e Laver | |
| | | | | C Layer | |
| [] Sulfidic Odor | | [] Organic Str | J | | |
| [X] Probable Aquatic Mo | ist Regime | [] Listed on Lo | • | | |
| [] Reducing Conditions | i | [] Listed on N | ational Hydric | Soils List | |
| [] Gleyed or Low-Chroi | na Colors | [] Other (explain | ain in remarks) |) | |
| | | _ | | | |
| Unit Name: | | Taxonomy: | | | |
| Drainage Class: | | [] Field Observat | ions match ma | ар | |
| Remarks | | | | | |
| | | | | | |
| Wetland Determination | | | | | |
| [X] Hydrophytic Vegetation | Present | [X] This Data P | oint is a Wetla | and | |
| [X] Hydric Soils Present | | - | | | |
| [X] Wetland Hydrology Pres | sent | | | | |
| Remarks | | | | | |
| i voitiai No | | | | | |

Data Form Routine Wetland Determination Project/Site: Concord Resort, Thompson, NY Date: October 28, 2004

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? | | Date: October 28, 2004 County: Sullivan State: New York Community ID: W19 | |
|---|--|--|--------------------------------------|
| [] Have vegetation, soils, or hydrology been disturbed? [X] Is the area a potential problem area? | , | Station ID: Transect 19.2 Plot ID: Upland | |
| Vegetation | | • | |
| Dominant Species | Common Name | % Cover | Indicator |
| Tree X Tsuga canadensis Betula alba Fagus grandifolia | Hemlock,Eastern Birch,White Beech | | FACU FAC+ FAC+ |
| % Species that are OBL, FACW, or FAC (except FAC-): Remarks | 0 Cov | vardin Classification: | |
| Hydrology Prima | nry Wetland Hydrology Indicators | s Secondary Hydrology | / Indicators |
| [] Recorded Data (describe in remarks) [[] Stream, Lake, or Tide Gage [[] Aerial Photograph [[] Other (describe in remarks) [Field Observations: |] Inundated] Saturated in upper 12 inches] Water marks] Drift lines] Sediment deposits] Drainage patterns in wetlands | [] Oxidized root of [] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | channels leaves ey data est |
| Remarks | | | |
| Soils | | | |
| Depth (in.) Hor. Solor Matrix Color Mottle / 2nd Mottle 2-0 O 2.5YR 2.5/1 0-4 A 2.5YR 5/4 | undance Contrast Str | xture, ucture, etc. composed leaves | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors | [] Concretions [] High Organic % in Su [] Organic Streaking [] Listed on Local Hydri [] Listed on National Hy [] Other (explain in remains | c Soils List rdric Soils List | |
| Unit Name: Drainage Class: | Taxonomy: [] Field Observations matc | h map | |
| Remarks Rock 6" | | | |
| Wetland Determination | | | |
| [] Hydrophytic Vegetation Present[] Hydric Soils Present[] Wetland Hydrology PresentRemarks | [] This Data Point is a V | Vetland | |

Upland

Data Form Routine Wetland Determination

Job Number: 100309 City: Thompson

Wetland Data Point: W19(wetland)

| Applicant/Ov Investigator: [X] Do norm [] Have veg [X] Is the are Vegetatio Dominant Shrub X Tree X | Concord Resort, Towner: Concord Association Stewart al circumstances exist getation, soils, or hydea a potential problem in Species Rhododendron max Tsuga canadensis Betula alleghaniens nat are OBL, FACW, or the property of the problem in the | ociates, LP st on the site? rology been disturb n area? imum | Commor Rhodode Hemlock Birch,Yel | ndron,Rosebay Eastern low | County: State: No Communi | ew York ty ID: W19 : Transect 19.2 Vetland % Cover | Indicator FAC FACU FACU |
|--|---|---|---|--|---|---|--------------------------------------|
| [] S [] A [] C Field Obse Dept Dept | ed Data (describe in Stream, Lake, or Tide serial Photograph Other (describe in rem | remarks) Gage arks) .): 0 (in.): 4 | [] Inundated [X] Saturated [X] Water ma [] Drift lines [] Sediment | in upper 12 incherks | es | econdary Hydrology [] Oxidized root of [X] Water-stained [] Local soil surve [] FAC-Neutral te [] Other (explain | channels leaves ey data est |
| Soils | | | | | | | |
| | or. Matrix Color GLEY2 2.5/5PB 7.5YR 4/1 | Mottle / 2nd Mott Color 7.5YR 5/1 | Abundance few | Contrast | Texture, Structure, etc. | | |
| [] Hist [] Hist [X] Sulfi [] Prob [X] Red | ic Epipedon idic Odor pable Aquatic Moist R ucing Conditions yed or Low-Chroma C | | [] [] [] [] Taxono | Concretions High Organic % in Organic Streaking Listed on Local Hy Listed on National Other (explain in r my: d Observations m | ydric Soils List Hydric Soils L emarks) | | |
| [X] Hydrop [X] Hydric | Determination hytic Vegetation Pres Soils Present d Hydrology Present | sent | [X] | This Data Point is | a Wetland | | |

Data Form Routine Wetland Determination

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [X] Have vegetation, soils, or hydrology been di [] Is the area a potential problem area? | | Date: October 29, 2004 County: Sullivan State: New York Community ID: W60 Station ID: Transect 60.1 Plot ID: Upland |
|--|---|--|
| Vegetation Dominant Species | Common Name | % Cover Indicator |
| Herbaceous Thelypteris noveboracensis | Fern,New York | FAC |
| Tree X Tsuga canadensis Fagus grandifolia | Hemlock,Eastern Beech | FACU FAC+ |
| % Species that are OBL, FACW, or FAC (excep Remarks | t FAC-): 0 Co | wardin Classification: |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicator [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | [] Oxidized root channels[] Water-stained leaves[] Local soil survey data[] FAC-Neutral test[] Other (explain in remarks) |
| Soils | | |
| Depth (in.) Hor. Matrix Color Mottle / 2nd Color 0-12 A 7.5YR 3/2 7.5YR 4/3 | Abundance Contrast St | xture, ructure, etc. t Loam |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: | [] Concretions [] High Organic % in St [] Organic Streaking [] Listed on Local Hydr [] Listed on National Hy [] Other (explain in rem Taxonomy: [] Field Observations mate | ic Soils List ydric Soils List arks) |
| Remarks | | |
| Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a \ | Wetland |

Job Number: 100309 **Data Form** City: Thompson **Routine Wetland Determination**

Wetland Data Point: W60 (wetland)

| Applicant/C Investigato [X] Do norr [] Have ve | e: Concord Resort, Thompson, NY Dwner: Concord Associates, LP r: Ethan Stewart mal circumstances exist on the site? egetation, soils, or hydrology been dis rea a potential problem area? | turbed? | County: State: Nev Community | v York ID: W60 Transect 60.1 | |
|--|---|--|------------------------------------|--|--------------------------------------|
| Vegetation | on | | | | |
| Dominant | Species | Common Name | | % Cover | Indicator |
| Herbaceou | | | | | |
| X | Aster umbellatus Juniperus virginiana Carex capillaris Dichanthelium acuminatum Euonymus americanus | Aster,Flat-Top Wh Cedar,Eastern Re Sedge,Hair-Like Grass,Panic Strawberry-Bush, | d | | FACW FACU FACW FAC FAC |
| <u>Shrub</u> | Laonymas amendanas | Ollawberry Basin, | monoan | | 17.0 |
| Х | Rhododendron maximum Vaccinium corymbosum | Rhododendron,Ro Blueberry,Highbus | | | FAC FACW- |
| Tree X % Species Remarks | Tsuga canadensis Betula alba Fagus grandifolia Betula alleghaniensis that are OBL, FACW, or FAC (except | Hemlock,Eastern Birch,White Beech Birch,Yellow FAC-): 66 | Cowardin Classi | fication: | FACU FAC+ FAC+ |
| Hydrolog | V | Primary Wetland Hydrolog | ou Indicatora Coa | ondary Hydrology | , Indiantora |
| [] Recor [] [] [] Field Obs Dep Dep | ded Data (describe in remarks) Stream, Lake, or Tide Gage Aerial Photograph Other (describe in remarks) ervations: oth of Surface Water(in.): 0 oth to Free Water in Pit(in.): 6 oth to Saturated Soils(in.): 0 | [] Inundated [X] Saturated in upper [X] Water marks [] Drift lines [] Sediment deposits [X] Drainage patterns | [12 inches [[[[|] Oxidized root of X] Water-stained] Local soil surving FAC-Neutral to] Other (explain | channels leaves ey data est |
| Soils | | | | | |
| Depth H (in.) 0-10 A | Hor. Matrix Mottle / 2nd N Color Color A 10YR 4/1 GLEY2 5/5B0 | Abundance Contras | Texture, Structure, etc. Silt Loam | | |
| [] His [] Su [] Pro [X] Re [X] Gle Unit Nam Drainage Remarks Wetland [X] Hydro | stic Epipedon Ifidic Odor Obable Aquatic Moist Regime ducing Conditions eyed or Low-Chroma Colors e: Class: Determination phytic Vegetation Present | [] Organic S [] Listed on [] Listed on [] Other (exp Taxonomy: [] Field Observ | anic % in Surface Layer | it | |
| | c Soils Present nd Hydrology Present | | | | |

Data Form Routine Wetland Determination

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been dis [X] Is the area a potential problem area? Vegetation Dominant Species Herbaceous X Athyrium thelypteroides Thelypteris noveboracensis | turbed? Common Name Fern,Silvery Lady Fern,New York | Date: October 28, 2004 County: Sullivan State: New York Community ID: W19 Station ID: Transect 19.1 Plot ID: Upland % Cover | Indicator FAC FAC |
|--|---|--|--------------------------------------|
| Tree X Tsuga canadensis Acer rubrum Fagus grandifolia % Species that are OBL, FACW, or FAC (except Remarks | Hemlock,Eastern Maple,Red Beech FAC-): 50 Cow | vardin Classification: | FACU FAC FAC+ |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicators [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | Secondary Hydrology [] Oxidized root [] Water-stained [] Local soil surv [] FAC-Neutral to [] Other (explain | channels leaves ey data est |
| Soils Depth (in.) Hor. Color Matrix Color Mottle / 2nd Mottle / 2 | | | |
| Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: | [] Concretions [] High Organic % in Su [] Organic Streaking [] Listed on Local Hydric [] Listed on National Hy [] Other (explain in remains) | rface Layer c Soils List dric Soils List | |
| Drainage Class: Remarks Rock 12" | [] Field Observations matc | h map | |
| Wetland Determination [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a V | /etland | |

Data Form Routine Wetland Determination

Job Number: 100309 City: Thompson

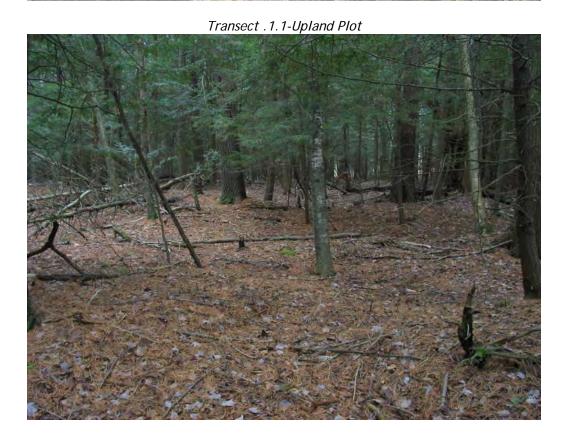
Wetland Data Point: W19(wetland)

| Project/Site: | Concord Resort | , Thompson, NY | | | Date: October 28, 2004 | |
|--------------------|-----------------------------------|----------------------|------------------|------------------------|---------------------------|---------------|
| Applicant/O | wner: Concord As | ssociates, LP | | | County: Sullivan | |
| Investigator | Ethan Stewart | | | | State: New York | |
| [X] Do norm | nal circumstances e | xist on the site? | | | Community ID: W19 | |
| [] Have ve | getation, soils, or h | ydrology been distur | bed? | | Station ID: Transect 19.1 | |
| [X] Is the ar | ea a potential probl | em area? | | | Plot ID: Wetland | |
| Vegetatio | n | | | | | _ |
| Dominant | Species | | Commor | Name | % Cover | Indicator |
| Herbaceou | | | | | | |
| X | Athyrium thelypte Sphagnum sp. | | Fern,Silve | | | FAC |
| Shrub | Thelypteris novel | ooracensis | Fern,New | York | | FAC |
| X | Rhododendron m | aximum | Rhodode | ndron,Rosebay | | FAC |
| <u>Tree</u> | | ariii arii | | ,, | | |
| X | Tsuga canadensi | S | Hemlock, | | | FACU |
| | Acer rubrum | | Maple,Re | :d | | FAC |
| % Species t | Fagus grandifolia | | Beech | Cov | vardin Classification: | FAC+ |
| Remarks | nat are OBL, FACV | V, or FAC (except FA | (C-). 66 | COV | varuin Classification. | |
| Remarks | | | | | | |
| l la colona l a co | | | | | | |
| Hydrolog | У | F | Primary Wetland | Hydrology Indicators | s Secondary Hydrolog | gy Indicators |
| [] Record | ded Data (describe | in remarks) | [] Inundated | i | [] Oxidized root | channels |
| [] | Stream, Lake, or Tid | de Gage | [X] Saturated | in upper 12 inches | [X] Water-stained | d leaves |
| [] | Aerial Photograph | | [X] Water ma | rks | [] Local soil sur | vey data |
| [] | Other (describe in re | emarks) | [X] Drift lines | | [] FAC-Neutral | test |
| | | , | [] Sediment | deposits | Other (explain | n in remarks) |
| Field Obse | | | | patterns in wetlands | | , |
| | th of Surface Water | | []9- | ,, | | |
| Dep | th to Free Water in | Pit(in.): 3 | | | | |
| Dep | th to Saturated Soil | s(in.): 0 | | | | |
| Remarks | | | | | | |
| Remarks | | | | | | |
| Soils | | | | | | |
| | an Marketon | Maula / Oad Ma | ut - | T | 4 | |
| | or. Matrix | Mottle / 2nd Mot | | | kture, | |
| (in.) 8-0 O | Color 10YR 4/1 | Color 10YR 2/1 | Abundance few | | ucture, etc. | |
| 6-0 O | 101K 4/1 | 101K 2/1 | iew | ue | composed leaves | |
| | | | | | | |
| Hydric Soi | ls Indicators | | | | | |
| [] Hist | tosol | | [] | Concretions | | |
| [] Hist | tic Epipedon | | [X] | High Organic % in Su | rface Laver | |
| | fidic Odor | | | Organic Streaking | ., | |
| | bable Aquatic Mois | t Regime | | isted on Local Hydric | r Soile Liet | |
| | ducing Conditions | r regime | | isted on National Hy | | |
| | • | Coloro | | | | |
| [] Gie | yed or Low-Chroma | a Colors | [](| Other (explain in rema | arks) | |
| Unit Name | : | | Taxono | my: | | |
| Drainage (| Class: | | []Fiel | d Observations matcl | h map | |
| • | | | | | • | |
| Remarks | | | | | | |
| Watland | Determination | <u> </u> | | | | |
| | | | <u>-</u> | | | |
| | ohytic Vegetation P | resent | [X] | Γhis Data Point is a V | Vetland | |
| | Soils Present | | | | | |
| [X] Wetlar | nd Hydrology Prese | nt | | | | |
| Remarks | | | | | | |
| | | | | | | |

Data Form Routine Wetland Determination

| Project/Site: Concord Resort, Thompson, NY Applicant/Owner: Concord Associates, LP Investigator: Ethan Stewart [X] Do normal circumstances exist on the site? [] Have vegetation, soils, or hydrology been dis [X] Is the area a potential problem area? Vegetation Dominant Species Herbaceous X Thelypteris noveboracensis Tree X Acer rubrum | | Date: October 13, 2004 County: Sullivan State: New York Community ID: W10 Station ID: Transect 10.2 Plot ID: Upland **Cover** Indicator FAC FAC |
|---|--|--|
| Fagus grandifolia Hamamelis virginiana % Species that are OBL, FACW, or FAC (excep Remarks | Beech Witch-Hazel,American | FAC+ FAC- owardin Classification: |
| Hydrology [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Other (describe in remarks) Field Observations: Depth of Surface Water(in.): 0 Depth to Free Water in Pit(in.): >24 Depth to Saturated Soils(in.): >24 Remarks | Primary Wetland Hydrology Indicato [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands | [] Oxidized root channels[] Water-stained leaves[] Local soil survey data[] FAC-Neutral test[] Other (explain in remarks) |
| Soils Depth (in.) Hor. Matrix Color Mottle / 2nd Color 1-0 O 5YR 3/1 | Abundance Contrast St | exture, tructure, etc. lecomposed leaves |
| O-14 A 5YR 3/3 5YR 4/4 Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Unit Name: Drainage Class: Remarks Hard pan Wetland Determination | [] Concretions [] High Organic % in S [] Organic Streaking [] Listed on Local Hydi [] Listed on National H [] Other (explain in rer Taxonomy: [] Field Observations mat | ric Soils List lydric Soils List narks) ch map |
| [] Hydrophytic Vegetation Present [] Hydric Soils Present [] Wetland Hydrology Present Remarks Upland | [] This Data Point is a | Wetland |

Transect 1.1-Wetland Plot

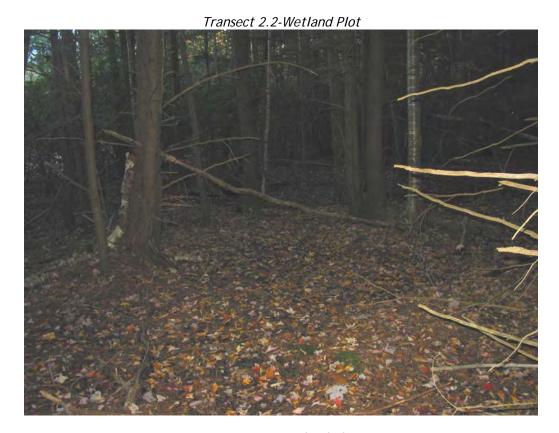


Transect 2.1-Wetland Plot



Transect 2.1-Upland Plot







Transect 3.1-Wetland



Transect 3.1-Upland Plot



Transect 5.1-Wetland Plot

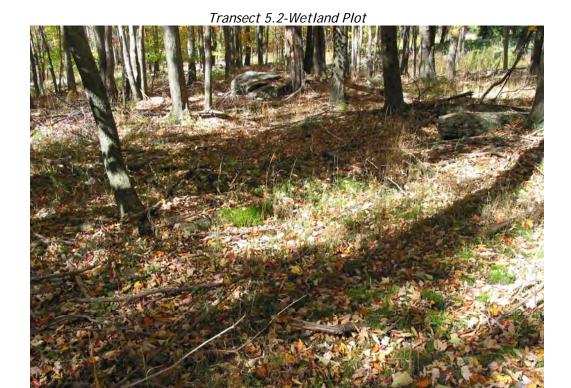


Transect 5.1-North-Upland Plot



Transect 5.1-3ddri-wettand Flot

Transect 5.1-South-Wetland Plot



Transect 5.2-Upland Plot



Transect 6.1-Wetland Plot



Transect 6.1-Upland Plot





Transect 8.1-Upland Plot



Transect 9.1-Wetland Plot



Transect 9.1-Upland Plot





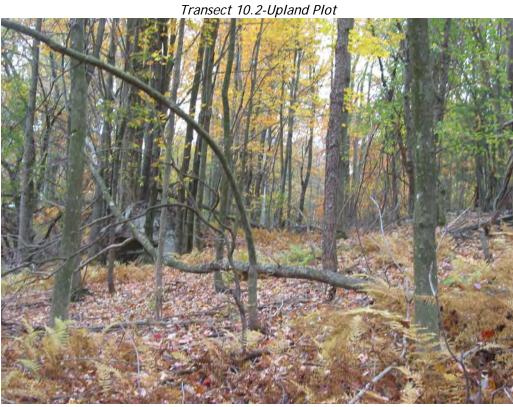


Transect 10.1-Wetland Plot





















Transect 12.1-Upland Plot

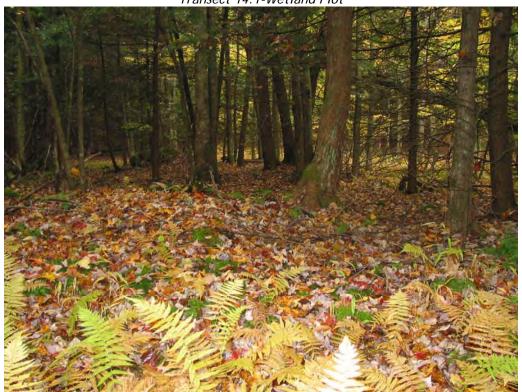
Transect 13.1-Wetland Plot



Transect 13.1-Upland Plot



Transect 14.1-Wetland Plot



Transect 14.1-Upland Plot



Transect 15.1-Wetland Plot



Transect 15.1-Upland Plot



Transect 15.2-Wetland Plot

Transect 15.2-Upland Plot



Transect 15.3-Wetland Plot



Transect 15.3-Upland Plot





Transect 16.1-Upland Plot



Transect 17.1-Wetland Plot

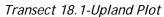


Transect 17.1 North-Upland Plot



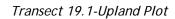
Transect 17.2 South-Upland Plot













Transect 19.2-Wetland Plot



Transect 19.2-Upland Plot



Transect 20.1-Wetland Plot

Transect 20.1-Upland Plot



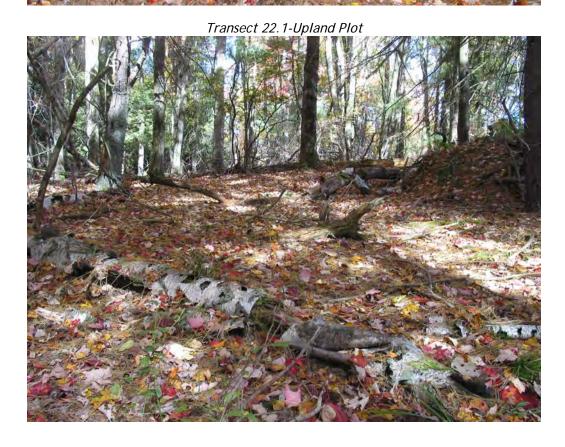
Transect 21.1-Wetland Plot



Transect 21.1-Upland Plot



Transect 22.1-Wetland Plot



Transect 22.2-Wetland Plot



Transect 22.2-Upland Plot



Transect 25.1-Wetland Plot



Transect 25.1-Upland Plot

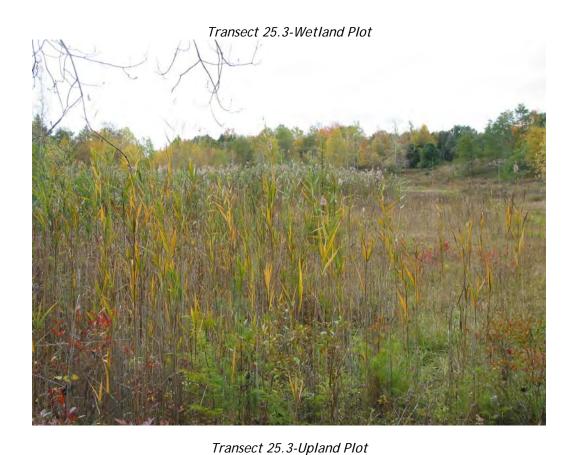


Transect 25.2-Wetland Plot



Transect 25.2-Upland Plot









Transect 26.1-Upland Plot





Transect 27.1-Upland Plot





Transect 27.2-Upland Plot



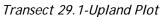
Transect 28.1-Wetland Plot



Transect 28.1-Upland Plot







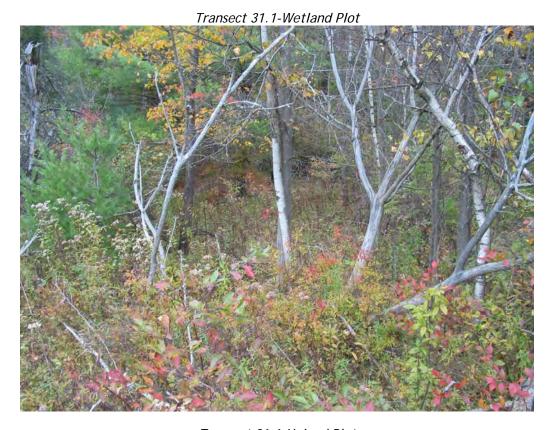


Transect 30.1-Wetland Plot



Transect 30.1-Upland Plot

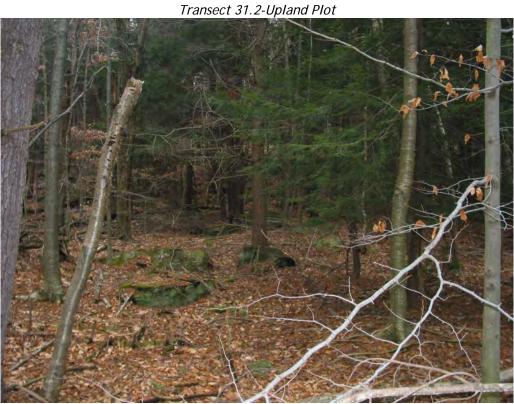




Transect 31.1-Upland Plot

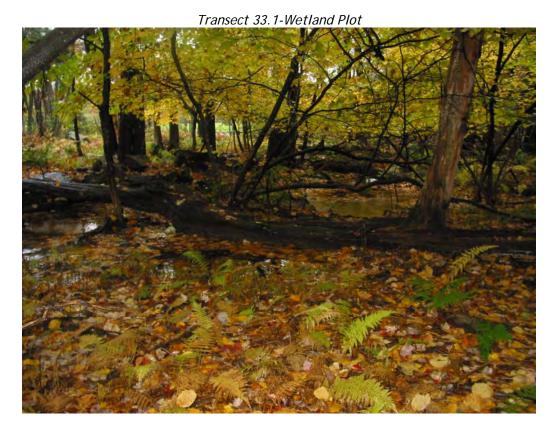


















Transect 33.3-Wetland Plot



Transect 33.3-Upland Plot





Transect 34.1-Upland Plot



Transect 34.2-Wetland Plot



Transect 34.2-Upland Plot



Transect 35.1-Wetland Plot

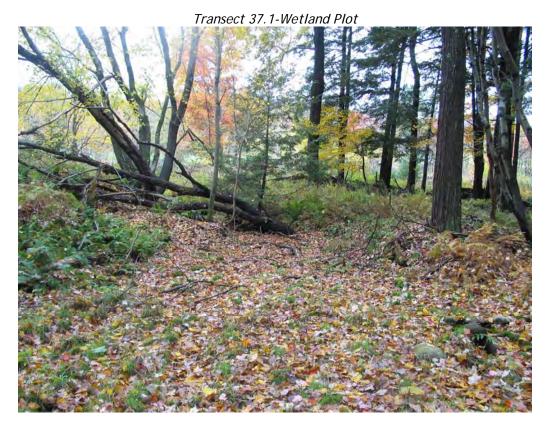


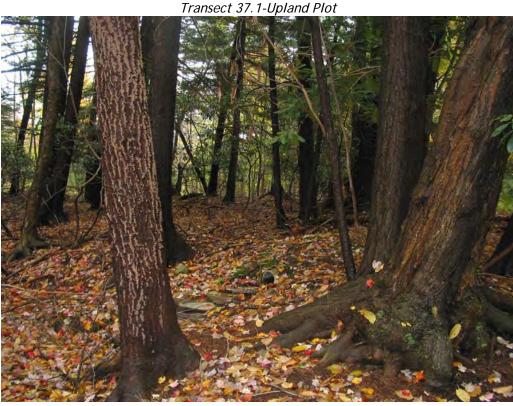
Transect 35.1-Upland Plot



















Transect 38.1-Wetland Plot

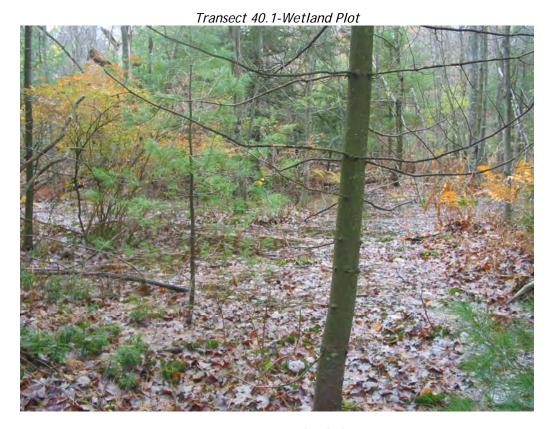
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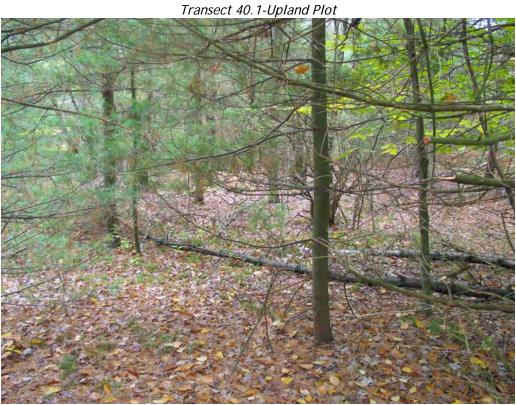




Transect 39.1-Upland Plot







Transect 41.1-Wetland Plot



Transect 41.1-Upland Plot



Transect 42.1-Wetland Plot



Transect 42.1-Upland Plot





Transect 42.2-Upland Plot



Transect 43.1-Wetland Plot



Transect 43.1-Upland Plot



Transect 44.1-Wetland Plot



Transect 44.1-Upland Plot

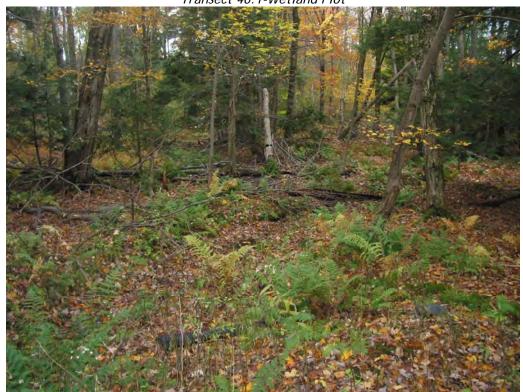








Transect 46.1-Wetland Plot



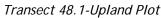
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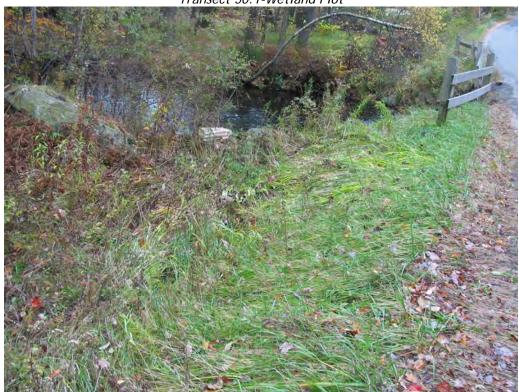








Transect 50.1-Wetland Plot



Transect 50.1-Upland Plot



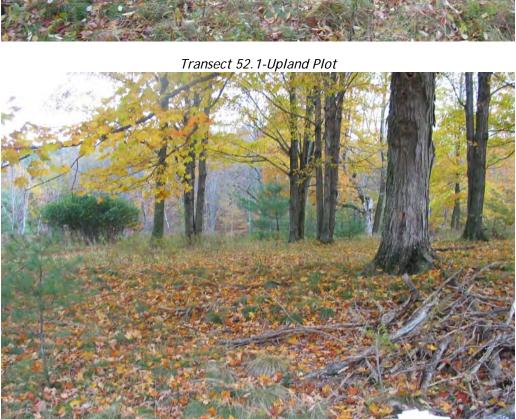


Transect 51.1-Upland Plot



Transect 51.2 South-Wetland Plot





Transect 52.2-Wetland Plot





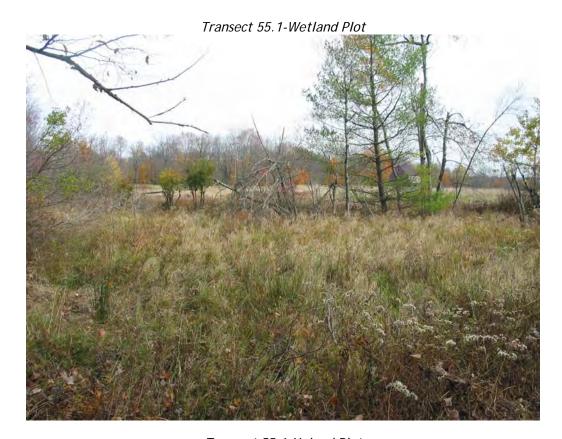


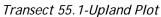
Transect 54.1-Wetland Plot



Transect 54.1-Upland Plot









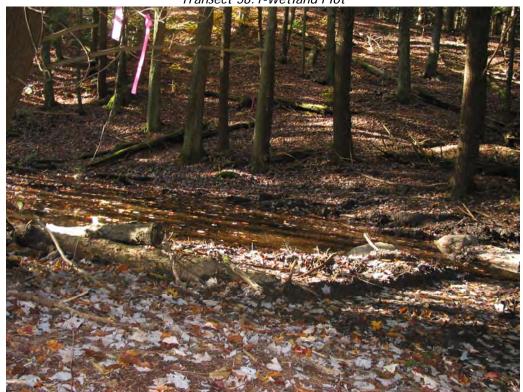








Transect 58.1-Wetland Plot



Transect 58.1-Upland Plot

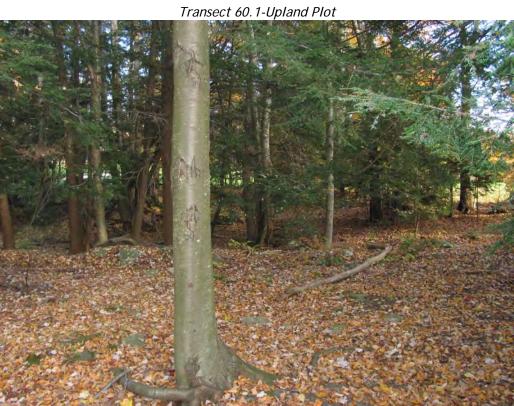




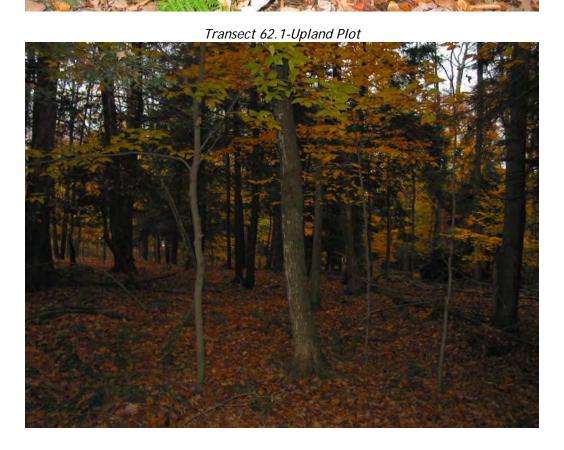
Transect 59.1-Upland Plot







Transect 62.1-Wetland Plot



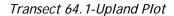
Transect 63.1-Wetland Plot



Transect 63.1-Upland Plot





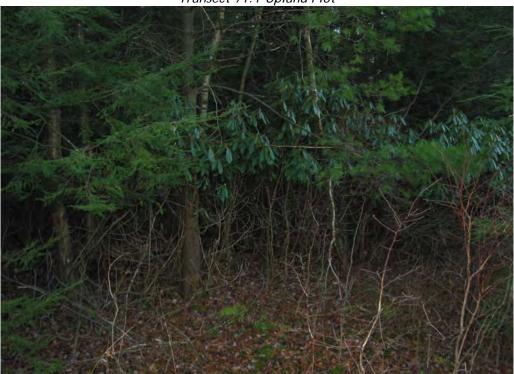






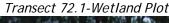


Transect 71.1-Wetland Plot





Transect 72.1-Wetland Plot



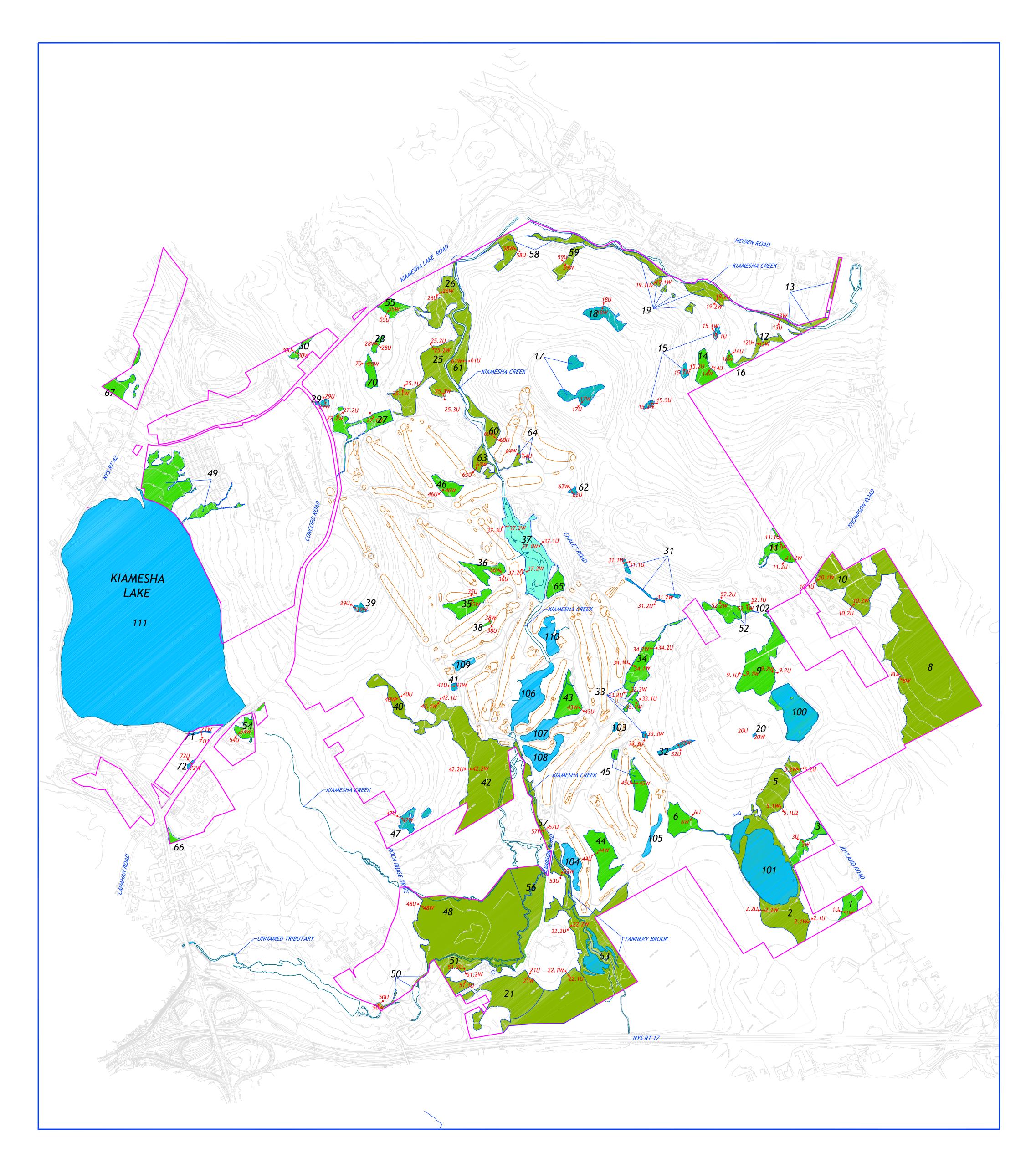


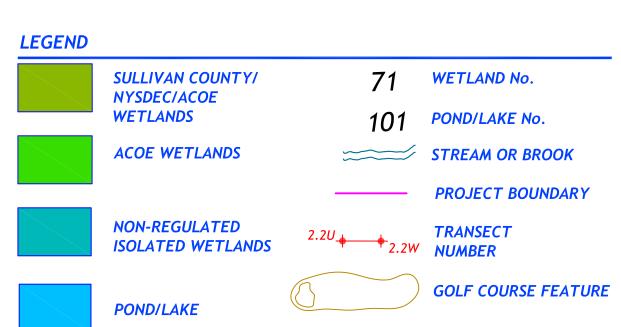
Transect 61.1-Wetland Plot



Transect 61.1-Upland Plot







NOTES

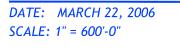
- WETLANDS FLAGGED (FIELD MARKED) BY WILLIAM KENNY ASSOCIATES, LLC AND SURVEYED BY CONTRACTORS' LINE &
- TOPOGRAPHIC AND ASSOCIATED FEATURES INFORMATION PROVIDED BY ROBINSON AERIAL SURVEYS, INC.
- NYSDEC WETLAND JURISDICTION BASED ON FIELD REVIEWS BY
- DOUGLAS GUAGLER OF THE NYSDEC. WETLAND JURISDICTION AND MAPPING SUBJECT TO CHANGE UNITL FORMALLY ADOPTED BY REGULATORY AGENCIES.

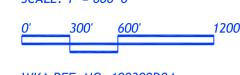
WETLAND JURISDICTION AND MAPPING

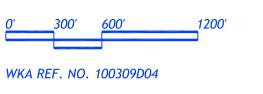
CONCORD ASSOCIATES, LP

LOCATION:

THE CONCORD RESORT KIAMESHA LAKE, NEW YORK

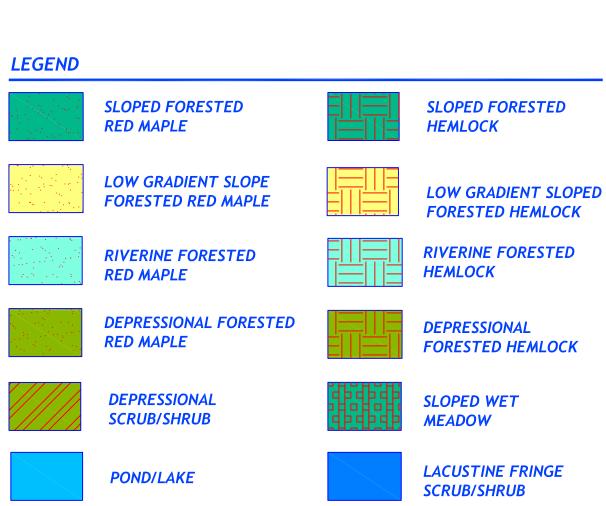












WILLIAM KENNY
ASSOCIATES LLC

Soil Science
Ecological Services
Land Use Planning
Landscape Architecture

WETLAND NO.

POND/LAKE NO.

PROJECT BOUNDARY

| WETLAND FUNCTION ¹ | 1 | 2 | 3 | 4 | <i>5</i> | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|----------|---|---|---|---|----|-----|
| MODIFICATION OF GROUNDWATER DISCHARGE | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | M |
| MODIFICATION OF GROUNDWATER RECHARGE | L | L | L | Н | L | L | L | Н | L | Н | М |
| STORM AND FLOODWATER STORAGE | L | M | Н | Н | L | M | Н | Н | L | Н | M/F |
| MODIFICATION OF STREAM FLOW | Н | M | Н | L | Н | M | Н | L | Н | L | Н |
| MODIFICATION OF WATER QUALITY | L | M | Н | Н | L | M | Н | Н | L | Н | Н |
| EXPORT OF DETRITUS | Н | M | Н | L | Н | M | Н | L | Н | L | М |
| CONTRIBUTION TO THE ABUNDANCE AND DIVERSITY OF WETLAND VEGETATION | Н | Н | Н | Н | L | L | L | M | Н | Н | M/I |
| CONTRIBUTION TO THE ABUNDANCE AND DIVERSITY OF WETLAND FAUNA | Н | Н | Н | Н | L | L | L | M | Н | Н | M/F |

NOTES

¹ HGM METHOD

WETLAND AREA.

- WETLANDS FLAGGED (FIELD MARKED) BY WILLIAM KENNY
 ASSOCIATES, LLC AND SURVEYED BY CONTRACTORS' LINE &
- GRADE.
 TOPOGRAPHIC AND ASSOCIATED STRUCTURE INFORMATION PROVIDED BY ROBINSON AERIAL SURVEYS, INC.
- PROVIDED BY ROBINSON AERIAL SURVEYS, INC.
 CLASSIFICATIONS INDICATED ARE PRIMARY CLASSIFICATIONS.
 MOST WETLAND AREAS HAVE ONE OR MORE INCLUSIONS OF
 OTHER WETLAND CLASSES THAT IN TOTAL GENERALLY
 ACCOUNT FOR LESS THAN 50 PERCENT OF THE TOTAL

| WETLAND TYPE | QUANTITY |
|------------------------------------|----------|
| 1. SLOPED FORESTED RED MAPLE | 27 |
| 2. LOW GRADIENT SLOPE FORESTED RED | |
| MAPLE | 2 |
| 3. RIVERINE FORESTED RED MAPLE | 4 |
| 4. DEPRESSIONAL FORESTED RED MAPLE | 6 |
| 5. SLOPED FORESTED HEMLOCK | 10 |
| 6. LOW GRADIENT SLOPE FORESTED | |
| HEMLOCK | 2 |
| 7. RIVERINE FORESTED HEMLOCK | 2 |
| 8. DEPRESSIONAL FORESTED HEMLOCK | 7 |
| 9. SLOPED WET MEADOW | 4 |
| 10.DEPRESSIONAL SCRUB/SHRUB | 3 |
| 11.LACUSTINE FRINGE | 4 |

WETLAND CLASSIFICATION

WETLAND CLASSIFICATIONS AND FUNCTIONS

CONCORD ASSOCIATES, LP

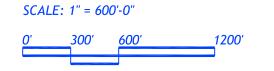
LOCATION:

DATE: MARCH 22, 2006

WKA REF. NO. 100309D05

TOTAL

THE CONCORD RESORT KIAMESHA LAKE, NEW YORK





71

Appendix F-2 Wetland and Watercourse Assessment Report

From 2006 CALP DGEIS

THE CONCORD RESORT KIAMESHA LAKE, NY

WETLAND AND WATERCOURSE ASSESSMENT REPORT

PREPARED FOR:

Concord Associates LP 219 Concord Road Kiamesha Lake, NY 12751

PREPARED BY:

WILLIAM KENNY ASSOCIATES LLC 217 WEBB ROAD FAIRFIELD, CT 06825

March 22, 2006

Ref. No. 100309R01

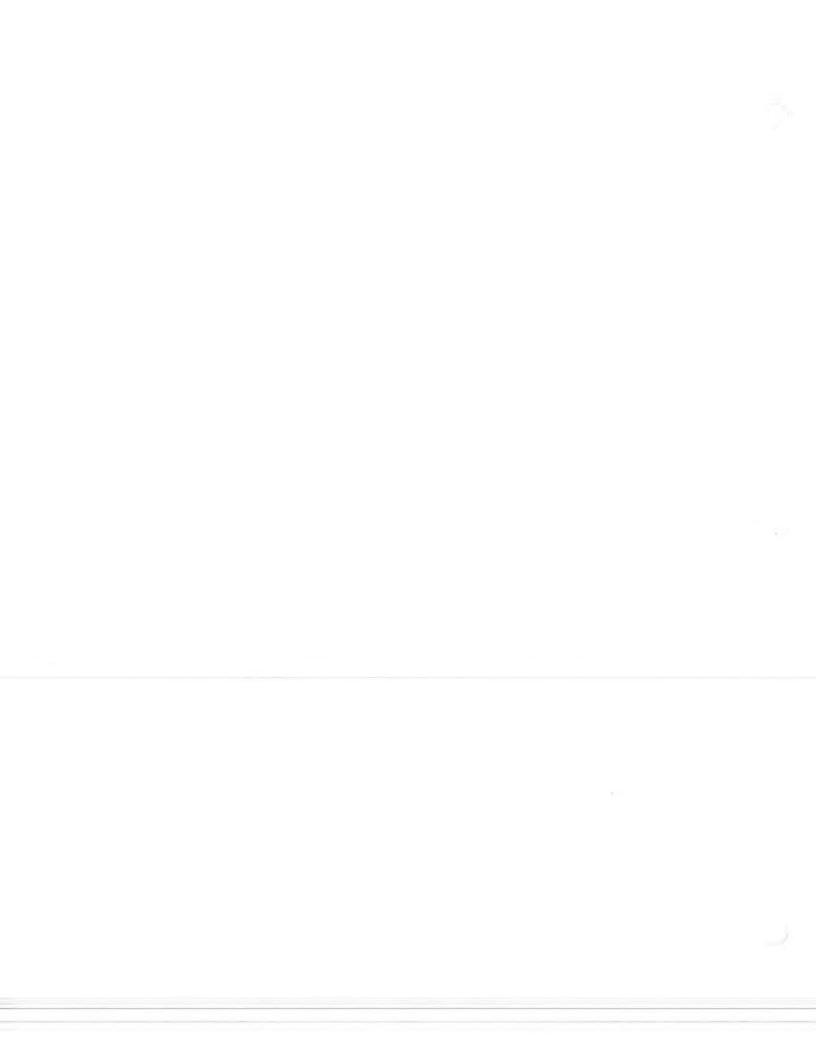


TABLE OF CONTENTS

| EXE | CUTIVE SUMMARYiv |
|-----|---|
| 1.0 | WETLAND IDENTIFICATION, DELINEATION AND |
| | REGULATORY JURISDICTION1 |
| | 1.1 Federal Requirements |
| | 1.2 State Requirements |
| 2.0 | WETLAND CLASSIFICATION6 |
| | 2.1 Forested Red Maple Slope Wetland Systems |
| | 2.2 Forested Red Maple Low Gradient Slope Wetland Systems 9 |
| | 2.3 Forested Red Maple Riverine Wetland Systems9 |
| | 2.4 Forested Red Maple Depressional Wetland Systems9 |
| | 2.5 Forested Hemlock Slope Wetland Systems |
| | 2.6 Forested Hemlock Low Gradient Slope Wetland Systems 11 |
| | 2.7 Forested Hemlock Riverine Wetland Systems11 |
| | 2.8 Forested Hemlock Depressional Wetland Systems11 |
| | 2.9 Wet Meadow Slope Wetland Systems12 |
| | 2.10 Scrub Shrub Slope Wetland Systems |
| 3.0 | WETLAND FUNCTIONAL ASSESSMENT12 |
| | 3.1 HGM Functional Capacity Assessment Method |
| | 3.2 HGM Functional Capacity Results |
| 4.0 | STREAM AND LACUSTRINE HABITAT ASSESSMENT 18 |
| | 4.1 Stream Assessment |
| | 4.2 Lacustrine Assessment |
| 5.0 | REFERENCES23 |

| | 14 | | - 1 | |
|---|-----|---|-----|----|
| 7 | A . | | г 1 | ES |
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| | | | | |

| Table 1: | Corps Permitting Thresholds | 3 |
|----------|--|---|
| Table 2: | Summary of Wetland and Surface Water Regulations | 5 |
| Table 3: | Wetland Classification Groupings | 7 |

APPENDICES

Appendix A Project Drawings

Project Location

Wetland Classifications and Functions

Wetland Jurisdiction and Mapping

Appendix B Hydrogeomorphic (HGM) Wetland Assessment Datasheets

(128 pages)

Appendix C Stream Assessment Datasheets (12 pages)

Appendix D Lacustrine HGM Datasheets (24 pages)

MARCH 22, 2006 PAGE iv

Executive Summary

The following report describes the wetland and watercourse systems identified on the approximately 1,735-acre Concord Resort property in the Town of Thompson, NY (Figure 1). This report is the result of extensive fieldwork that identified over 60 wetland ecosystems, 12 lacustrine systems, and three primary stream corridors on the subject site. Individual datasheets¹ and photographs document the vegetation, soils and hydrology of each wetland, watercourse and waterbody identified during the site evaluation.

The delineated wetlands and watercourses on the subject site trigger some regulatory jurisdiction at a federal and state level². However, based on a number of criteria, the protection is variable between wetlands. The delineated wetlands may be protected by both federal and state regulations, solely federally regulations, or not afforded protection by either body. The regulatory status of each of the identified wetlands has been assessed and compiled for this report.

Following the identification and delineation of the wetlands and watercourses onsite, standard classification systems were applied to group the over 60 wetland systems into discrete categories based on the vegetation and landscape position of the area. The standard hydrogeomorphic (HGM) approach (Magee 1998) was utilized, and 11 wetland groups resulted from this classification. The physical composition and associated functionality of each of the wetland areas are described and tabulated, per the HGM method. For the most part, the onsite wetlands demonstrate the potential to contribute moderately to highly to each of the eight recognized wetland functions of the HGM approach.

Three primary stream corridors were evaluated during the field assessment: Kiamesha Creek, an unnamed tributary to Kiamesha Creek, and Tannery Brook. The site is located within a subwatershed of a major tributary, the Neversink River, to the Delaware River. The onsite stream habitat displays variability that is reflective of adjacent land use, and provides marginal to optimal habitat as a result.

The twelve lacustrine systems were located on the existing golf course and in the forested portions of the site. Eight systems were on the golf course, and four were primarily vegetated pond systems. Seven of the watercourse areas fostered a wetland fringe in some portions around the perimeter of the waterbody. Kiamesha Lake was included in this assessment. Similar to the stream ecosystems, the lacustrine areas displayed variability reflective of adjacent land use patterns.

WILLIAM KENNY ASSOCIATES ILC

Army Corps of Engineers (ACOE) and hydrogeomorphic (HGM) datasheets were completed for each wetland and waterbody onsite.

² The Town of Thompson does not have a wetland protection bylaw.

MARCH 22, 2006 PAGE 1

1.0 Wetland Identification, Delineation and Regulatory Jurisdiction

The Project Investigation Area (Appendix A) was studied to determine the presence and extent of jurisdictional wetlands, watercourses and waterbodies in accordance with the requirements of applicable regulatory agencies. According to the completed investigation, the Project Investigation Area includes both federally regulated and state regulated wetlands and watercourse types, as well as wetland areas that are not afforded protection by either federal or state regulatory agencies. All of the jurisdictional wetlands on the subject parcel are federally protected by the Army Corps of Engineers (Corps), but as state jurisdiction by the New York State Department of Environmental Conservation (DEC) is determined by the area of the wetland systems, not all of the onsite wetlands are afforded both state and federal protection. As described below, a primary difference in the jurisdiction of state and federal wetlands is that federal wetlands do not have an associated upland review area, while activities within 100-feet of the boundary on DEC wetlands are within the purview of state regulators. The Town of Thompson does not have any inland wetland regulations written into the Town Code, as a result, there is no local jurisdiction of wetland areas on the subject parcel. However, Kiamesha Lake is a public water supply and resultantly local health department regulations pertaining to activities within the lake and adjacent areas exist.

The uplands, wetlands and watercourse areas are depicted the Wetland Classification and Functions (Appendix A) and the Wetland Jurisdiction and Mapping (Appendix A) site plans. Detailed information (e.g. data sheets and photos) regarding the completed wetland delineation is provided in a separate wetland delineation document. The location of delineated wetland boundaries and the jurisdiction of each wetland area is subject to change until formally adopted by applicable regulatory agencies. The following text summarizes the applicable regulatory definitions of wetlands and watercourse and was the basis for the completed wetlands and watercourse delineations.

1.1 Federal Requirements

Section 404 of the Clean Water Act authorizes the Corps to regulate certain activities within the Waters of the United States (WUS). Waters of the United States include wetlands, streams, ponds and other surface waterbodies. The Corps define wetlands

based on a three-parameter approach; wetland (hydric) soils, wetland (hydrophytic) vegetation, and wetland hydrology as presented in the 1987 Federal Manual for Identifying and Delineating Jurisdictional Wetlands (Federal Manual). In order for an area to be identified as a wetland under the Corps approach, all three criteria must be met. The Corps regulate any wetland that meets the three criteria, regardless of size, so long as it is connected to the "waters of the United States", i.e. associated with running water of some kind: the Corps does not routinely regulate isolated wetlands, neither do they regulate wetlands that were created for stormwater management purposes in formerly nonwetland areas. Isolated wetlands are wetlands separated from WUS by natural upland features other than river berms and beach dunes.

The Corps use the presence or absence of an ordinary high water mark or bed and bank to determine surface waters (e.g. ponds and streams), including intermittent watercourses. Wetland vegetation need not be present to complete a waterbody determination. The Corps' jurisdiction ends at the boundaries of Waters of the United States. It does not extend to upland (nonwetland or watercourse) areas regardless of the juxtaposition to other wetlands or watercourses. Federally regulated wetland/watercourse areas were identified and delineated at the site, in accordance with the Federal Manual. Delineation data sheets and photos are provided in Appendices B and F, respectively. The Corps have not yet reviewed the wetland delineation. However, wetland areas that are likely regulated by the Corps are identified on the "Wetland Jurisdiction and Mapping" site plan (Appendix A).

Section 404 authorizes the Corps to regulate the discharge of dredged or fill material into WUS. The Corps uses two types of permits (Individual and Nationwide General) to authorize regulated activities in New York. Nationwide General permits are for minor activities and require less or no review by the Corps than Individual Permits. The Individual permitting process is more involved and includes a public notice and comment period. Generally, the need for an Individual Permit or the need for Corps review and approval is based on the following thresholds of alteration:

Table 1: Corps Permitting Thresholds

| Permanent Loss of WUS | Permit and Action Required | | |
|---|---|--|--|
| >0.5 acres of non-tidal waters, including wetlands > 300 Linear feet of streambed | Individual Permit: Submit application documents to Corps and participate in public notice and comment period. | | |
| 0.1-0.5 acres of non-tidal waters, including wetlands < 300 Linear feet of streambed | Nationwide General Permit: Comply with appropriate Nationwide General Permit. Submit application documents to Corps for review. | | |
| < 0.1 acres of non-tidal waters, including wetlands | Nationwide General Permit: Comply with appropriate Nationwide General Permit and do not submit application documents to Corps for review. | | |

1.2 State Requirements

The New York State Department of Conservation (DEC) under Article 24 of the Environmental Conservation Law protects freshwater wetlands in the State of New York. The Act defines wetlands "as lands and submerged lands commonly known as swamps, sloughs, bogs and flats which support wetland vegetation." Based on the New York State Wetlands Delineation manual, the primary criteria for wetland delineation is determined by the presence of hydrophytic vegetation. In some cases, field verification of wetlands may be supported by the presence of hydric soils and wetland hydrology. Under Title 3 of the Act, freshwater wetlands with an area of 12.4 acres or more are regulated by the DEC. Wetlands less than 12.4 acres may also be regulated, if they are determined to be of unusual importance.

The DEC protects watercourses under Article 15, Title 5 of the Environmental Conservation Law. According to Part 608 of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York, certain activities affecting watercourses are regulated and require a permit. These activities include the modification or disturbance of the bed or banks of protected streams that are classified C(t) and above (including the removal of sand or gravel) and filling or dredging in navigable waters. The watercourses on the subject parcel are classified as "C" type watercourses, and activities within these areas are therefore not regulated by the DEC.

In addition to wetlands and watercourses, the DEC regulates certain activities occurring within Adjacent Areas (land within 100 feet horizontally of DEC wetlands). A permit is required regardless of the size of wetland or Adjacent Area disturbance.

The regulated DEC wetlands have been preliminarily identified on the subject parcel through site walks with DEC personnel in Fall 2004. These wetlands areas are identified on the site map entitled "Wetland Jurisdiction and Mapping" (Appendix A) prepared by William Kenny Associates LLC (WKA).

1.3 Local Requirements

The Town of Thompson does not have a wetland protection bylaw. However, Kiamesha Lake is a public drinking water supply and resultantly local regulations, the *Rules and Regulations for Protection from Contamination of the Public Drinking Water Supply of the Village of Monticello*, regulate and prohibit certain activities within and adjacent to the lake. These regulations govern and restrict the use of pesticide and herbicide within the lake watershed, the use of road salt within 500' of the lake, land clearing within 75' of the lake and mandates the installation of sediment basins prior to the commencement of construction activities.

In addition to the regulations specific to Kiamesha Creek, Sullivan County, at Part II Chapter 131 of the County Code, cites the protection of Freshwater Wetland as per DEC guidelines. This Chapter of the County Code does not result in a separate wetland permitting process, as the County defers to the DEC for the wetland permits.

1.4 Regulation Summary

In an effort to simplify the information presented above, a permitting matrix was generated (Table 2). The matrix provides information as to the local, county, state and federal permitting process that are in place relative to land use and wetland areas.

TABLE 2: Summary of Wetland and Surface Water Regulations

| REGULATORY AGENCY | | Kiamesha Lake | | EGULATED ACTIVITIES etlands/Watercourses | | Buffers |
|--|---|--|---|--|---|---|
| Health Department/ Monticello Village Water Supply Regulatory Reference: Rules and Regulations for Protection from Contamination of the Public Water Supply of the Village of Monticello, Sullivan County | | No herbicides or Pesticides shall be stored, discharged, applied, or allowed to enter the reservoir (d)(3) No bathing, wading, or Swimming (d)(6)(i) No fossil fueled power Boats (d)(6)(ii) Boats designed to hold more than four people are not permitted (d)(6)(ii) Sailboats that do not have a containment are for passengers/operators are prohibited (d)(6)(ii) No docks, floats, or rafts permitted (d)(6)(iii, iv) Boating Permits required (d)(6) Structures are not permitted on the water or ice (d)(9)(i) | | No herbicides or pesticides shall be stored, discharged, applied, or allowed to enter the watercourse (d)(3) | • | No road salt within 500 feet of the reservoir or watercourse (d)(2) Land stripping of sod, rock, brush, outrees is not allowed within 75 feet of the reservoir (d)(9)(vi) Install sedimentation basins prior to construction activities at least 100 feet from the reservoir (d)(9)(vi) |
| New York State Department of Environmental Conservation Regulatory Reference: 6 NYCRR Part 663 Article 15, Title 5 December 18, 1994 | • | The regulation deals with wetlands not considered navigable under Part 608 | • | Wetland boundaries are required to be verified by State after completion of survey. This is based on State mapped wetlands with in the project limits as well as unmapped state wetlands that we estimate are larger than 12.4 acres | • | Wetland buffer regulations include jurisdiction over a 100-foot Adjacent Area zone. |
| New York State Department of Environmental Conservation Regulatory Reference: | • | Docks and moorings require a permit ¹ (608.4) Excavation or placement of fill in navigable waters requires a permit | • | Excavation or placement of fill in navigable waters, Including marshes that adjacent and contiguous to any point of navigable | • | No wetland buffer identified for this Part. |

| REGULATORY AGENCY | Kiamesha Lake | REGULATED ACTIVITIES Wetlands/Watercourses | |
|--|---|--|--|
| 6 NYCRR Part 608 Article 15, Title 5 December 18, 1994 | (608.5) | waters to mean high water level requires a permit (608.5) | |
| New York State Department of Environmental Conservation Article 17 Title 8 ECR and 6NYCRR part 750-757 | Construction Activities ground water resources | ntion Discharge System (SI . This requirement is to p s of the state, by requiring to surface or ground wat t. | protect surface and g discharges of storm |
| Sullivan County County Code Part II Ch. 131 | Provisions in the NY DEC full jurisdiction under NY | law provides for the County DEC 6NYCRR Part 663. | to undertake and exercise |
| Army Corps of Engineers Regulatory Reference: Section 404 of the | Discharge for dredge or fill material, removal of debris or sediment, and placement of new rip-rap into navigable waters of | Discharge of dredge or fill material, removal of debris or sediment, and placement of new rip-rap into | No buffers from wetlands or watercourses |

2.0 Wetland Classification

Classifications are recognized definitions that are based on consistent standards. As such, their use allows for the presentation of information in a clear and brief format. Following extensive field evaluations, the onsite wetlands and watercourse systems were organized into over 60 discrete wetland areas, and then grouped by hydrogeomorphic (HGM) class and vegetative structure. The HGM classification is an evaluation methodology that uses the geomorphic setting, the water source, and the transport and hydrodynamics of the evaluated wetland to infer information regarding the functional capacity of the each system (Magee 1998). In wetlands where the vegetative structure was equivalent, i.e. forested wetlands, distinctions were drawn based on vegetative composition. Eleven

wetland groups resulted from this organization technique (Table 3), and descriptions of each of the systems are presented. These wetland areas occupy more that 324 acres of land, or 19 percent, on the approximately 1,735-acre property. The classification of the onsite wetlands into the 10 primary groups allows for a clear evaluation of the functional capacity of each of these systems to perform basic wetland functions. The resulting functional capacity analysis is presented in Section 3.

Table 3: Wetland Classification

| Wetland Type | Number of Onsite Wetlands |
|---|--------------------------------------|
| S - Forested Red Maple | 25 |
| LGS - Forested Red Maple | 2 |
| R - Forested Red Maple | 4 |
| D - Forested Red Maple | 7 |
| S - Forested Hemlock | 10 |
| LGS - Forested Hemlock | 2 |
| R - Forested Hemlock | 2 |
| D - Forested Hemlock | 7 |
| S - Wet Meadow | 3 |
| D - Scrub/Shrub | 4 |
| LF - Ponds | 11 |
| S = slope LGS = low-gradient slope R = riverine | D = depressional LF - lac. fringe |

The descriptors that precede each of the vegetative communities relates to the HGM class of the wetland. Of the six HGM classes presented by Magee, the onsite wetlands represent four of these classes: slope, riverine, depression, and lacustrine fringe³. The HGM classification method has designated the six classes based on geomorphic setting, i.e. how was the wetland created, water source, i.e. how is the wetland supported, and transport and hydrodynamics, i.e. how does the wetland function. Slope wetlands are wetlands on a hillside of any gradient, and are typically supported by groundwater. Depressional wetlands are found within an area of lower elevation than the surrounding land, and may be hydrologically supported by surface flow, groundwater, and direct precipitation. Riverine wetlands occur adjacent to a river or stream system, and are

³ The lacustrine fringe wetlands are associated with larger pond and lake ecosystems for which independent assessments were conducted. As a result, the lacustrine fringe wetlands are discussed within the lake/pond section of this report (Section 4.2).

supported exclusively by overbank flooding from the adjacent riverine system.

Lacustrine fringe wetlands are directly attached to or border a lacustrine system, and are supported by surface water flow.

2.1 Forested Red Maple Slope Wetland Systems

Red maple dominated forested wetlands are present throughout the project site, and are the most represented wetland type onsite, with 25 of the 60 plus evaluated wetlands systems comprised of a red maple slope system. This wetland ecosystem may be found occupying broad areas with shallow slopes, at the heads of subwatersheds or bordering small feeder streams to Kiamesha Creek, bordering larger stream systems, and in isolated, depressional areas, although the dominant HGM class of this wetland on-site is the slope. The red maple wetlands, in general, display a mature canopy, and may contain scattered individuals of yellow birch, white pine or Eastern hemlock in the canopy layer. In some wetland systems, white pine may be a co-dominant canopy tree with red maple, while in others Eastern hemlock may occupy a co-dominant position. The transitions between a red maple dominated wetland system and an Eastern hemlock dominated wetland system are the areas where the red maple shares a co-dominant position with the hemlock. In contrast, as white pine is not a true wetland species, it is typically found in a co-dominant or sub-dominant position within the vegetative assemblage of the wetland (it may, however, dominate the shrub layer). As well, in some areas of the property, particularly in the northeastern portion of the site, American beech displays a strong subdominant, and in one area co-dominant, position with the red maple canopy. The shrub layer within the red maple wetlands is variable: it can be absent, moderately dense, or thick depending upon location on the property. Shrub species are generally comprised of highbush blueberry, white pine, arrowwood, iron wood, winterberry, American beech, yellow birch, and gray birch. Groundcover displays a similar variability, depending upon location, and it is comprised of species such as cinnamon fern, sensitive fern, and sphagnum moss.

The topography within this class of red maple wetlands is sloped, with water flows predominantly unidirectional in line with, or parallel to, the slope vector. The water source of these wetland systems is generally seasonally high groundwater, though

precipitation may contribute to seasonally wetted areas. In some areas, characteristic "pit and mound" wetland topography is present, with vegetation taking root on the mounds and open areas comprising the pits, but this topography may be considered a subset within the larger sloped wetland system.

2.2 Forested Red Maple Low-Gradient Slope Wetland Systems

A distinction is made between the slope wetland systems and wetland systems with a lesser slope gradient. This distinction is necessary as the gradient of the slope may affect the capacity of the wetland to perform the characteristic wetland functions. The vegetative assemblage within the low-gradient slope wetland is similar to that of the slope wetland system. The hydrodynamics of the low-gradient slope wetland appears to differ slightly from the slope wetland, as the hydrology of the low-gradient slope wetland system is driven exclusively by groundwater. In contrast, the hydrology of the slope wetland system, though dominated by groundwater, is also periodically influenced by both surface water and precipitation.

2.3 Forested Red Maple Riverine Wetland Systems

The characteristic red maple ecosystem is found in four locations bordering portions of the watercourses present on the subject parcel. The watercourses are both the small first-order feeder streams, in addition to the larger watercourse systems, such as Kiamesha Creek or Tannery Brook, which meander through the property. As with the other red maple dominated wetlands, the composition of vegetation is similar, but the hydrology and landscape position is distinct. The riverine red maple wetland does display individuals and clumps of Rosebay rhododendron in the shrub layer, which is dissimilar to the sloped red maple systems. The hydrology of these systems are driven by overbank flooding from the watercourse proper, as opposed to a groundwater source.

2.4 Forested Red Maple Depressional Systems

Seven depressional red maple ecosystems are observed on the subject parcel. These systems are characterized by their topography, where they occupy a closed contour surrounded by upland areas. The upland boundary that surrounds the perimeter of a depression is a distinguishing feature of this HGM class, as the upper boundary of the

other HGM classes described typically abut one another, e.g. riverine wetland abutting a slope wetland. The majority of the depressions observed on the subject parcel contain a permanent or ephemeral inlet and/or an outlet, and as a result as not necessarily isolated systems. Adjacent to the golf course links, these ephemeral outlets and subsurface. The hydrology of depressional systems is dominated by groundwater, with, in general, the presence of a perennial inlet and no outlet indicating a groundwater recharge area, and the presence of a perennial outlet with no inlet demonstrative of a groundwater discharge area.

2.5 Forested Eastern Hemlock Slope Wetland Systems

Similar to the red maple forested wetlands, Eastern hemlock dominated forested slope wetlands are present throughout the site. In general, these wetlands are found flanking a watercourse within the base of a stream valley, though overflow from the adjacent watercourse is not driving the hydrology in these systems: groundwater is. The dense and persistent canopy cover within the hemlock wetlands limits the extent and diversity of vegetation in the remainder of the forest strata, with little to no groundcover or shrub layer being the most common condition. The characteristic understory shrub within the hemlock forest is a native rhododendron: Rosebay rhododendron. The Rosebay is present in areas with canopy gaps, and comprise such dense thickets that passage is impossible except on hand and foot. As described above, in those areas where the canopy is transitioning from red maple to Eastern hemlock dominated, the hemlock may share a co-dominant position with the red maple. There are a few locations on site where a canopy comprised of red maple, white pine and Eastern hemlock is observed. One of the most visible qualities within a forested hemlock wetland is the homogeneity of the system. Generally, there is a limited diversity of vegetation, and these systems may occupy a large amount of land area. For example, while the Eastern hemlock dominated slope wetlands onsite are noted in 10 wetland groups, compared to 25 slope red maple wetlands, the land area occupied by the hemlock slope wetlands occupies 108 acres of land, compared with 78 acres of the red maple.

As described above, these systems are found most often in sloped wetland regimes, where groundwater controls the hydrology and water flow is parallel to the slope vector.

As such, the ground surface within these sloped wetlands is pitched towards the adjacent watercourse or riverine system. The characteristic topography within the larger sloped systems is the "pit and mound" topography previously described. However, the pit and mound topography observed within the hemlock system is more deeply defined, with, in areas, an approximate three-foot difference between the elevations in the pits versus the elevation in the mounds. These areas are also identified for the shallow depth to bedrock, with a scant amount organic material (fibric and hemic) comprising the interface between the forest floor and the underlying bedrock. Additionally, compared to the red maple dominated wetland systems, the slopes within the slope wetland class with hemlock dominance are generally shallower than that of the red maple dominated slope systems.

2.6 Forested Eastern Hemlock Low-Gradient Slope Wetland Systems

As with the red maple ecosystems, the differences between the slope and low-gradient slope hemlock systems are as the description implies: the extent of the slope. The purpose of identifying these differences pertains to the impact of slope gradient on wetland function. There two large wetlands that is subject to this description located in the southwestern portion of the site. In this wetland, an overall low-gradient exists with the characteristic pit and mound comprising the dominant microtopography. The understory is moderately dense to absent, and where present is comprised almost exclusively of the Rosebay rhododendron. Groundcover is generally absent.

2.7 Forested Eastern Hemlock Riverine Systems

As described above, hemlock dominated wetland systems are found bordering larger watercourse system and small feeder streams throughout the property. The hydrology in these systems is controlled by overflow from the watercourse, with the upper limits of these wetlands generally transitioning to another wetland system, as opposed to an upland environment. Though there are large areas of hemlock located adjacent to riverine systems on the property, there are only a few riverine controlled hemlock wetlands. The reason for this is the hydrology of majority of the hemlock wetlands is controlled by groundwater flow from an upgradient slope, as opposed to riverbank overflow.

2.8 Forested Eastern Hemlock Depressional Systems

Wetland depressions dominated by Eastern hemlock are located throughout the subject parcel. These areas are typically limited in size, and often contain a higher diversity of vegetation than the larger, slope systems. Typically within the depressional wetlands, red maple and/or white pine are a strong sub-dominant canopy tree to the Eastern hemlock. A moderately dense shrub layer is comprised of saplings from the canopy, and fruit bearing shrubs, such as highbush blueberry. Groundcover is occupied by species such as cinnamon fern, and in wetter areas, sphagnum moss.

2.9 Slope Wet Meadow Systems

Four sloped wet meadow ecosystems are located on the subject parcel, and cover a limited land area. These meadows are dominated by herbaceous vegetation such as soft rush, wool grass, various goldenrods, narrow-leaved cattail, sensitive fern, and purple loosestrife. The slope meadow wetlands transition to forested slope wetlands or to riverine ecosystems.

2.10 Depressional Scrub/Shrub

Two depressional successional scrub/shrub wetland are located on the subject parcel. This area appears to have been used at one time as a borrow pit, and had since been abandoned. This area is occupied in wetter areas by narrow-leaved cattail, sphagnum moss, common reed, wool grass and sensitive fern, while in the drier portions of the wetland shrub species such as highbush blueberry and sapling gray birch dominate. Forested upland surrounds this depressional system.

3.0 Wetland Functional Assessment

Following the establishment of the eleven primary wetland groups on the subject parcel, the functional capacity of each of these systems was analyzed using the hydrogeomorphic assessment methodology (HGM). As described below, the procedure based on the HGM classification assigns wetlands to one of six hydrogeomorphic classes based on the geomorphic setting, the water source, and the transport and hydrodynamics of the evaluated wetland. Once the hydrogeomorphic class is determined, the capacity of the subject wetland to perform eight functions is qualitatively assessed. A discussion of each

of the wetland groups and their capacity to perform the eight wetland functions recognized in the HGM methodology is presented below.

3.1 HGM Functional Capacity Assessment Method

The biophysical elements (e.g. landscape position, geology, hydrology, substrate, and vegetation) of wetlands determine their functions and to what capacity they are performed. The functions they provide and the capacity of those functions vary from wetland to wetland. To better understand these differences as they relate to the onsite wetlands, a functional evaluation was completed for the wetlands identified. Each onsite wetland was assessed to determine its capacity to provide eight wetland functions:

- 1. Modification of groundwater discharge
- 2. Modification of groundwater recharge
- 3. Storm and floodwater storage
- 4. Modification of stream flow
- Modification of water quality
- 6. Export of detritus
- 7. Contribution to abundance and diversity of wetland vegetation
- 8. Contribution to abundance and diversity of wetland fauna

This method assesses the relative importance of the wetlands for performing functions and provides a logical framework for observations, a structure for standardizing results, and a basis for achieving repeatable results among users. The completed wetland functional assessment was based on the author's professional judgment and the numeric theories, rules, and functional indicators included in the procedure. Detailed modeling, as provided for in the procedure, was not completed. The capacity for the onsite wetlands to perform the wetland functions varies from wetland to wetland and from function to function. The differences are due to natural (hydrogeomorphic) and human (e.g. past and current land use activities) conditions. However, as described below, with the exception of the diversity of vegetation and associated wildlife habitat functions, the capacity of the wetlands to perform the characteristic functions are fairly consistent within each HGM class. This observation indicates that, again with the exception of the vegetation and wildlife components, the physical construct of wetland drives the performance of the

majority of the HGM functions. The results of the completed assessment are provided on the Wetland Classification and Mapping site plan (Appendix A), prepared by WKA.

The following is a general description of each function and its potential societal value. In addition to the descriptions and summary provided below, hydrogeomorphic datasheets were completed in the field at each of the over 60 of the wetland areas (Appendix B). The datasheet transects are identified on the Wetland Jurisdiction and Mapping site plan, prepared by WKA

Modification of Groundwater Discharge:

Modification of groundwater discharge is the capacity of a wetland to influence the amount of water moving from the ground to the surface. Typically, a perennial inlet and outlet indicates that a wetland is directly linked with the regional water table and has a high capacity to perform this function. This can affect groundwater and surface water supplies and recreational activities.

Modification of Groundwater Recharge:

Modification of groundwater recharge is the capacity of a wetland to influence the amount of surface water moving to groundwater aquifers and thereby affecting public and private groundwater supplies. The subsoil and location of a site play a significant role in ability for wetlands to modify groundwater recharge. With the exception of slope wetlands, all wetlands have some capacity to contribute to this function. Poorly developed or no microrelief is an indication that the water table is below the substrate of a wetland for most of the growing season and that groundwater recharge is occurring. Wetlands with perennial outlets are discharge areas and cannot be recharge areas, even seasonally.

Storm and Floodwaters Storage:

Storm and floodwater storage is the capacity of a wetland to detain or retain stormwater on its surface. This benefits society by preventing storm damage and the loss of life and property. All wetlands, except slope wetlands, have some capacity to contribute to this function. Depressional wetlands have the highest potential for providing this function.

Modification of Stream Flow:

Modification of stream flow is the capacity of a wetland to produce or affect the hydrology of a downgrade stream. This function may affect societal values related to recreation, public water supply, flood control, and prevention of storm damage. Wetlands that have a high capacity to store storm and floodwater and to modify groundwater discharge have a high capacity to modify stream flow. All wetlands except those with no outlet contribute to the modification of stream flow.

Modification of Water Quality:

Modification of water quality is the removal of suspended and dissolved solids from surface water and dissolved solids from groundwater and conversion into other forms, plant or animal biomass or gases. This function may contribute to societal values related to public water supply, recreation, and aesthetics. The primary mechanisms for the removal of suspended solids are sedimentation and filtration. Dissolved constituents can be removed or made unavailable for downstream plant use via adsorption and absorption by soil particles, uptake by vegetation, loss to the atmosphere by microbiological processes, or combination of the three. Flow characteristics and residence time are the primary wetland characteristics affecting the ability of a wetland to perform this function. Generally, depressional, lacustrine fringe and flat wetlands have the highest potential for performing this function because typically the residence time of water is maximized. Conversely, slope wetlands have the least potential. However, the capacity to perform this function is directly related to the slope of the wetland system. For instance, the low-gradient slope wetlands would allow a higher residence time of water than a typical slope wetland, and therefore would have a higher potential to perform this function.

Export of Detritus:

Export of detritus refers to the ability of the wetland to produce and export dissolved and particulate organic particles to downstream aquatic ecosystems to serve as an energy source and support their food chain. Society may value this function as it relates to food web support, recreation (e.g. hunting and fishing), and the type and density of fauna supported by the wetland. The structure and composition of the wetland's vegetation

affects the production of detritus and the degree of the wetland's surface water connection with a stream, river or lake affects the transport of detritus. An increase in the productivity and diversity of an ecological community generally equates to a greater capacity to perform this function. Based on hydrogeomorphic conditions, riverine wetlands have the greatest potential for export of detritus due to an unrestricted outlet. Depressional and flat wetlands have the least potential because of their greater potential to retain suspended sediments.

Contribution to Abundance and Diversity of Wetland Vegetation:

Contribution to abundance and diversity of wetland vegetation is related to the number and type of hydrophytic plants that a wetland can produce and support. Society may value this function as it relates to environmental research and education, recreation, the type and density of fauna supported by the wetland, and production of harvestable goods. Because wetlands support plant species that occur in wetter and dryer (upland) habitats and species that grow only in wetland habitats (poorly drained and very poorly drained soils), most wetlands have a high capacity to contribute to the abundance and diversity of a landscape's vegetation. The primary variables affecting a wetland's capacity to perform this function are its plant species diversity, its vegetation density and dominance, its water regime diversity, and its juxtaposition to other wetlands.

Contribution to Abundance and Diversity of Wetland Fauna:

Contribution to abundance and diversity of wetland vegetation is the capacity of a wetland to support large and/or diverse populations of animal species that spend part or all of their life cycle in wetlands: either an individual wetland or a system or network of wetlands. Society may value this function as it relates to environmental research and education, recreation, aesthetics, and providing a source of food. A wetland's water regime is the primary factor affecting this function, as it largely controls the dominant vegetation type present and influences the animal movement to and within the wetland to food, cover and breeding areas. Other factors affecting the capacity of a wetland to contribute to the abundance and diversity of wetland fauna are the structure and

composition of the vegetation community and the juxtaposition of the wetland to other habitat types (e.g., another wetland, upland forest, farm field, surface waterbody, etc.).

3.2 HGM Functional Capacity Results

The majority of the on-site wetland groups demonstrate a medium-high capacity to perform the majority of the eight characteristic wetland functions of the HGM system. For the most part, the functional capacity of each of the on-site wetlands is consistent amongst hydrogeomorphic types regardless of vegetative cover type. The exception to this observation relates to the functions of "contribution to the abundance and diversity of wetland vegetation" and "contribution to the diversity of wetland fauna". Both of these functions are directly related to the type of vegetation found within the wetland, and as a result, differences between the potential of red maple wetlands and hemlock wetlands to contribute to these functions is distinct. Due to the relatively homogenous nature of the hemlock wetlands, and the lack of structural heterogeneity of the vegetation in the wetlands, the ability of these types of ecosystems to contribute to both the abundance and diversity of wetland vegetation and wetland fauna was considered to be low. In contrast, as the red maple wetland systems are structurally and vegetatively diverse, the ability of these wetlands to provide these functions was assessed at a high capacity. The depressional forested hemlock systems, however, exhibited a slightly higher diversity of vegetation than either the slope or riverine hemlock wetlands, and as a result, were evaluated at a moderate capacity for both vegetation and wildlife functions.

The remaining trends on the functional capacity table may be explained by the functional capacity of each of the different HGM classes. Slope wetlands, due to the comparatively low-residence time of water within these systems, provide low degrees of modification of groundwater recharge, storm and floodwater storage, and modification of water quality. The lower gradient slope wetlands allow for a slightly higher residence time of water and, concurrently, less export and more storage, and as a result, contribute moderately towards storm and floodwater storage, modification of stream flow, modification of water quality, and export of detritus. Riverine wetlands in this part of the country do not function as groundwater recharge areas, but contribute to each of the other functions at a high

capacity. In general, depressional wetlands are not associated with consistent surface flows, and resultantly, these wetland types do not contribute significantly towards the modification of stream flow or the export of detritus functions. The vegetation assemblage within the wet meadow and scrub shrub wetlands are diverse, and the functions of these two wetland groups mimic that of their larger geomorphic classes.

4.0 Lacustrine and Stream Habitat Assessments

As a component of the existing conditions survey, baseline surveys of the on-site lacustrine and stream habitats were conducted. Completed datasheets for each of these areas (6 stream surveys and 12 lacustrine) are attached in Appendices C and D, respectively. A synopsis of the results of these assessments follows.

4.1 Stream Assessments

Six characteristic stream reaches were assessed on the project site: four sections of Kiamesha Creek, one section of Tannery Brook, and one section of an unnamed tributary to Kiamesha Creek that enters the site from the west (refer to USGS quad). The on-site watercourses are classified as "C" type streams per the DEC. The site contains an abundance of stream habitat: Kiamesha Creek flows in a sine curve from Kiamesha Lake through the property. The Creek flows in a southerly direction from the Lake, turns to the north adjacent to Thompson Road to flow through the golf course, and then turns again to the south in the northeastern portion of the property. The main-stems of two other streams discharge into Kiamesha Creek within a few hundred feet of each other adjacent to the southwest portion of the property, adjacent to Thompson Road: Tannery Brook and an unnamed tributary to Kiamesha Creek. Kiamesha Creek eventually discharges into Sheldrake Stream, which then flows to the south to empty into the Neversink River, which is a major tributary to the Delaware River. The abundance of stream systems, and variability in stream reach dynamics on the site provide a number of opportunities for wildlife utilization.

Stream assessments were completed using datasheets provided in the Center for Watershed Protection's Unified Stream Assessment: A User's Manual publication.

Evaluated criteria of the stream assessments included dominant substrate of the bed, channel dimensions and dynamics, instream wildlife habitat, surrounding land use, bank erosion, and components of the buffer and floodplain, including vegetation, wildlife habitat and dynamics. The completed reach data sheets generated a score based on the condition of both the stream and the buffer/floodplain areas. The datasheet allows for a total score of 160, with 80 points allotted for the stream condition and 80 points for the floodplain and buffer condition. The four primary grades of each of the categories are optimal, sub-optimal, marginal and poor. In general, each of the stream reaches displayed optimal qualities, but floodplain and buffer zone fragmentation reduced the overall score of these stream systems, as described below.

The direct observations of the stream reaches and data yielded by the datasheet's quantitative component revealed the condition of the onsite streams ranged from optimal to marginal depending upon site location. For instance, the section of Kiamesha Creek adjacent to the northern property boundary is a forested bedrock controlled stream corridor that contains a number of water features including riffles, falls, and pools. This stream section displays a balance of shaded and daylighted areas, and contains variable bank topography and soil structure: features that all contribute to providing potential wildlife habitat. Further, this portion of Kiamesha Creek is connected to its floodplain and wide buffers are present between the banks of the stream and adjacent land development and/or disturbance. Resultantly, this portion of the stream provides optimal habitat to a variety of wildlife species, terrestrial and aquatic, and serves an important function in the larger surrounding ecosystem.

Kiamesha Creek, due to differing land uses, displayed variability along its flowpath through the property. In contrast to the northern section, the portion of the stream that flows through the golf course provides suboptimal to marginal habitat due to the lack of vegetation on and adjacent to the bank, and the absence of a buffer zone between the stream and human activities. This section of the stream does provide some function and ecological attributes, specifically, floodplain connectivity, earthen banks and stream bed, and larger canopy trees in the upper reaches of the floodplain that allow for perching sites

for angling avian species. Balancing the positives and negatives of this portion of the Creek resulted in a sub-optimal/marginal quality ranking for this system.

The aforementioned stream sections bookend the four other evaluated stream sections, which, in general, rank in the optimal/suboptimal range. The remainder of the stream sections demonstrated quality stream conditions, but factors such a fragmentation or obstruction of the floodplain or buffer zone with features such as roads, buildings, driveways, and dredge spoils reduced the quality of the floodplain and buffer zone condition for these systems.

4.2 Lacustrine Assessments

Twelve lacustrine ecosystems were identified on the subject parcel ranging from the over 100-acre Kiamesha Lake⁴, to a few thousand square feet wetland ponds, to constructed water hazards on the golf course (Appendix D). The ponded systems are numbered 100 through 111 on the site plan. Similar to the stream reach surveys, the ponds display variability in their water quality, extent or lack of lacustrine fringe wetland systems, wildlife habitat potential, recreational capacities and physical composition. The field observations of the lacustrine systems resulted in the establishment of two distinct pond groups: golf course ponds and vegetated pond or lake systems. The golf course ponds are more prevalent than the vegetated pond systems, with golf course ponds representing eight of the twelve (67%) observed ecosystems. A description of the types of systems observed within each group is provided below.

4.2.1 Golf Course Ponds

Eight constructed water features are located within the playing boundaries of the golf course, and are identified as ponds 4 through 11 on the completed datasheets. These ponds range in size from approximately 0.8 to 5.0 acres in size, but display a similarity in water depth. The maximum water depth in each of these ponds is approximately 5 feet with an average depth of approximately 4 feet. The majority of these ponded systems are connected, either through surficially expressed ditches or subsurface culverts, to the

An outlying parcel contains X feet of linear frontage on the southwestern shoreline of Kiamesha Lake.

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WETLAND AND WATERCOURSE EVALUATION
THE CONCORD RESORT, KIAMESHA LAKE, NY

main-stem of Kiamesha Creek, which flows in a northerly direction through the golf course. All of these ponds were created by man, through the widening of the Kiamesha Creek channel into a pond shape, enlarging a smaller water feature, or excavating an upland or wetland to create persistent standing water. Resultantly, dredge spoils may be found in mounds or shaped into berms adjacent to a number of these lacustrine areas.

Shoreline vegetation of the ponds is limited almost exclusively to manicured lawn, or herbaceous wetland species that are routinely mown. However, non-persistent emergent and submerged vegetative species, such as common bladderwort, duckweed, and pondweed, were observed within the majority of the golf course ponds, and provide structure to the aquatic habitat of these areas. Additionally, canopy trees are typically found, along with occasional clumps of shrubs, within a short distance of the edge of the golf course ponds, and provide perching spots for angling avian species. Due to the shallow depths of these systems, these areas are considered well-mixed, and it is unlikely that seasonal stratification is established. As identified on the datasheets, a few of these water features foster a fringing wetland in areas around the perimeter of the pond.

4.2.2 Vegetated Lacustrine Systems

Four waterbodies comprise the vegetated lacustrine group, which includes the Kiamesha Lake. Kiamesha Lake is a large waterbody, over 100 acres in size, that was created during the retreat of the Laurentide Ice Sheet approximately 12,000 years ago. The contributing watershed to the lake comprises the headwaters of Kiamesha Creek, as described in Section 4.1. Road construction, commercial and residential development has reduced the lacustrine fringe around Kiamesha Lake to the west and the north. However, the lake frontage of the subject parcel is densely vegetated by Rosebay rhododendron, highbush blueberry and canopy trees. The other three ponds in this group were manipulated or created by man, likely through the excavation of wetland areas, and likely to encourage fisheries recreation. Similar to the golf course ponds, dredge spoils are found in mounds or berms around and adjacent to the shorelines of these systems. As these systems are less manicured than the golf course ponds, a more diverse assemblage of vegetation is found around the perimeters of these systems, most typically a red maple

dominated wetland system. As well, nonpersistant emergent and submergent vegetation, such as spatterdock, pond lily, and wild celery, may be found within the aquatic habitat of these areas.

The depths of the vegetated ponds display variability when compared to the consistent maximum and average depths of the golf course ponds. The maximum depths of these systems range from six to over ten feet, with an average depth of between 3.5 and 6 feet⁵. The three smaller ponds (1-3) located on the central portion of the site have both permanent inlets and outlets, while Kiamesha Lake contains only a permanent outlet (Kiamesha Creek). Kiamesha Lake may be deep enough to develop a seasonal stratification, however the three smaller wetland ponds likely do not have an annual turnover, and are likely well-mixed, or holomictic, waterbodies.

⁵ The average depth of Kiamesha Lake was not determined.

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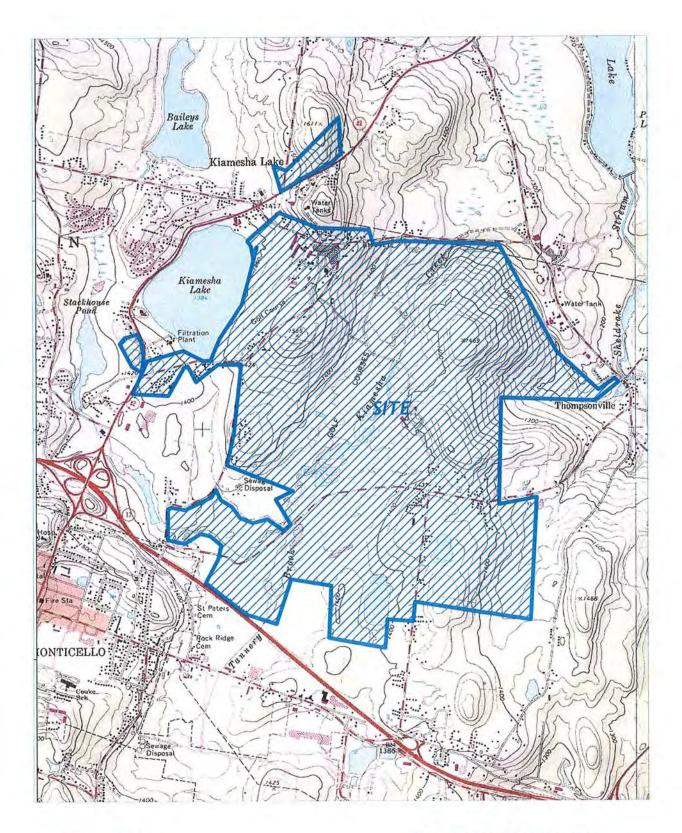
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PROJECT LOCATION THE CONCORD RESORT KIAMESHA LAKE, NEW YORK

DATE: MARCH 22, 2006 NOT TO SCALE





WETLAND INVENTORY DATA

| Project Number: Concord Wetland Number: W-1 Photo Numbers: Transed 1.1 USGS Quadrangle: | | | nte:10/12/ | 04 | | | |
|---|------------------|--|----------------------------------|--|------------|--|--|
| Field Investigators: | William Ken | ny Associates, | LL | C | _ | | |
| | | <u> </u> | IZA | TION of WETLAN | | | |
| SURFA | CE WATER FLOW VE | | | PLAN | T SPECIES | | |
| Condition ———————————————————————————————————— | Percent/Acreas | Depressional HIGH Slope GRADIENT Flat Extensive Peatland Lacustrine Fringe Riverine | _ Sr | y Fern phagown additional plant spec delineation data | | | |
| | VEGETATION TYPES | | she | et. | | | 100000 100000 |
| Type | Percent/Acreage | | = | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved | 30 | Histosol Fibric Hemic Sapric Mineral Hydric Soil Gravelly Sandy Silty Clayey | | | | | |
| Needle-leaved Emergent Wetland Persistent Non-persistent Aquatic Bed | = | GEOLOGY Surficial: T, LL | OW FW F FU OU DOM | Obligate Wetland Facultative Wetland Facultative Facultative Upland Obligate Upland Dominant | | COM OCC C S TS LS | Common Occasional Canopy Sapling Tall Shrub Low Shrub Herb |
| Total | | Bedrock: | | PRE-EMPT | TIVE STATU | - | |
| Comments: | | Shale and Sandatore | | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetlan | Do | ocument ate or for pecies egional | nted habitat for ederal listed ly scarce category archaeologic |

WETLAND INVENTORY DATA (continued)

PART 2 - CHARACTERIZATION of MODEL VARIABLES

| 27.07.1 W. W. W. C. B. L. | Microrelief of Wetland Surface | Number of Types & Relative Proportioner |
|--|---|---|
| LANDSCAPE VARIABLES Size: Small (<10 acres) | Microrellef of Wetland Surface: Pronounced | Number of Types & Relative Proportions: Number of Types |
| Frequency of Overbank Flooding: | Intermittent Spring | |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: NA |
| Return Interval 2-5 yrs, Return Interval 1-2 yrs, No Overbank Flooding | Soil Lacking: | - □ Low (5-25% cover) □ Medium (25-50% cover) □ High (>50% cover) |
| pH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Histosol: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dend Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| Wetland Land Use: | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) |
| High Intensity (ie. sgriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: |
| Wetland Water Regime? Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Sessonally Flooded, Temporarily Flooded. Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outlow Unrestricted Outlow No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistemt Aquatic Bed | >75% Scattered or Peripheral <25% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |

WETLAND INVENTORY DATA

| | pers: Transect | 2.1 | - | | | |
|---|------------------|---|----------------------|--|---|--|
| USGS Quadrangle: Field Investigators: | 1111 12 | Ny Associates | LLC | | | |
| rield investigators. | | | 17.A | TION of WETLAN | ID. | |
| SURFA | CE WATER FLOW VE | | | | T SPECIES | |
| Condition | Percent/Acrea | ge | | | PW FU OUL | 3 20 |
| → ← | | Depressional | | plant species see | 88523888 00000000 00000000 | |
| ### | 00 | Slope GRADIENT | | | | |
| $\leftarrow \uparrow \rightarrow$ | - | Extensive Peatland | | | | |
| | - | Lacustrine Fringe | | | | |
| | - | Riverine | Ξ | 15 | | |
| | VEGETATION TYPES | | | | | |
| Type | Percent/Acreage | | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved | <u>85</u> | Histosol Fibric Hemic Sapric | | | | 00000 00000 000001 000001 000001 |
| Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous | | Mineral Hydric Soil Gravelly Sandy Silty Clayey | | | | 00000 00000 00000 00000 |
| Broad-leaved Needle-leaved | | GEOLOGY | OW FW | Obligate Wetland Facultative Wetland | COM | Common Occasional |
| Emergent Wetland Persistent Non-persistent Aquatic Bed | | Surficial: TILL | F FU OU DOM | Facultative Facultative Upland Obligate Upland Dominant | C S TS LS H | Canopy Sapling Tall Shrub Low Shrub Herb |
| Total | | Bedrock: Shale and Sand Home | | PRE-EMPT | TVE STATUS | |
| Comments: | with depressions | throughout. | | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetlan | state or fe species Regionally wetland c Historic/a | |

WETLAND INVENTORY DATA (continued)

PART 2 - CHARACTERIZATION of MODEL VARIABLES

| TAMECADE VIDIABLES | Microrellef of Welland Surface: | Number of Types & Relative Proportions: | | |
|--|--|--|--|--|
| Size: Small (<10 acres) | Pronounced | Number of Types Evenness of Distribution Actual # Even Distribution John Moderately Even Distribution 4 Highly Uneven Distribution 3 Even Distribution 4 Highly Uneven Distribution 5 Even Distribution 6 Even Distribution 1 Even Distribution 2 Even Distribution 3 Even Distribution 4 Even Distribution 5 Even Distribution 6 Even Distri | | |
| > 50 % urbanized 25-50 % urbanized 0-25 % urbanized 0-25 % urbanized | Not Available Evidence of Sedimentation: | 2 5. tall herb: 6. dwarf shrub: 7. short shrub: 8. tall shrub: | | |
| HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: NA | ☐ No Evidence Observed ☐ Sediment Observed on Wetland Substrate ☐ Fluvaquent Soils Evidence of Seeps and Springs: ☐ No Seeps or Springs ☐ Seeps Observed ☐ Perennial Spring ☐ Intermittent Spring | 9. sapling: (10) tree: Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled | | |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | - Proportion of Animal Food Plants: ▷A - □ Low (5-25% cover) □ □ Medium (25-50% cover) □ □ High (>50% cover) | | |
| pH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water | Histosol: Fibric Hemic Sapric | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open | | |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till Wetland Land Use: | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) | | |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (le. open space) | VEGETATION VARIABLES Vegetation Lacking: | Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral | | |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Crub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent | 20-73% Scattered or Peripheral 25% Scattered or Peripheral 25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: NA Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: | | |
| Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Aquetic Bed | One or Few Manual Absent | | |

WETLAND INVENTORY DATA

| Wetland Number: | W-3 | | | | |
|---|-----------------|---|----------------------------------|---|---|
| | pers: Transact | 3.1 | | | |
| | | | | | |
| USGS Quadrangle | 1 1 11 1 | NV Asset 1 | 110 | | |
| Field Investigators | - William nen | ny Associates | LLC | | |
| | PART | - CHARACTE | RIZA | TION of WETLA | ND |
| SURFA | CE WATER FLOW V | | T | | NT SPECIES |
| Condition | Percent/Acre | age | | | DOW DOW COM COM COM COM COM COM COM COM COM COM |
| *** | 90 | Depressional Slope GRADIENT Flat | * F. | or plant species see newtion data sheet. | |
| | 10 | Extensive Peatland Lacustrine Fringe Riverine | | | |
| | | | | | |
| | VEGETATION TYPE | S | - | | |
| Туре | Percent/Acreage | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen | 50 50 | Histosol Fibric Hemic Sapric Mineral Hydric Soil | | | |
| Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved | | • Gravelly • Sandy • Silty • Clayey | = | | |
| Emergent Wetland Persistent Non-persistent Aquatic Bed | = | GEOLOGY Surficial: TILL | OW FW F FU OU DOM | Obligate Wetland Facultative Wetland Facultative Facultative Upland Obligate Upland Dominant | COM Common OCC Occasional C Canopy S Sapling TS Tall Shrub LS Low Shrub H Herb |
| Total | | Bedrock: Shate and Soulstone | /- | PRE-EMP | TIVE STATUS |
| Comments: | | OLIVE MAS SOME STAND | = | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetla | Documented habitat for state or federal listed species Regionally scarce wetland category Historic/archaeologic |

WETLAND INVENTORY DATA (continued)

PART 2 - CHARACTERIZATION of MODEL VARIABLES

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: Pronounced >45 cm | Number of Types & Relative Proportions: Number of Types Evenness of Distribution | | |
|--|--|---|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Well Developed 15-45 cm Poorly Developed <15 cm Absent | Actual # 7 | | |
| Large (>100 acres) Large (>100 acres) Wetland Juxtaposition: Colvert - toclar Rec. d Comected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized High Fluctuation of Wetland: | Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Intermittern Outlet No Inlet/Intermittern Outlet Intermittern Inlet/No Outlet Intermittern Inlet/Intermittern Outlet Intermittern Inlet/Intermittern Outlet Perennial Inlet/Intermittern Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soila Evidence of Seeps and Springs: | Vegetation Density/Dominance: Sparse | | |
| Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Seepa Observed Perennial Spring Intermittent Spring | Medium 3-4 plots sampled High 5 or more plots sampled | | |
| Rerum Interval > 5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: NA | | |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | Soll Lacking: | Low (5-25% cover) Medium (25-30% cover) High (>50% cover) | | |
| pH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No-Water | Histosol: Fibric Hemic Sapric | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open | | |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) | | |
| Wetland Land Use: High Intensity (ie. agriculture) | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) | | |
| Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scauered or Peripheral | | |
| Wetland Water Regime? Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | >75% Scattered or Peripheral 25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highty Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent | | |
| ☐ High >10% ■ Low <10% | | | | |

WETLAND INVENTORY DATA

| Project Number: | Concord | | Date: 18/12/6 | 14 | |
|---|------------------------|--|---|---|--|
| Wetland Number: | | | | | |
| Photo Numb | pers: Trunsect | 5,1 | - | | |
| USGS Quadrangle: | | | | | |
| Field Investigators: | . William K | lenny Associates | LLC | | |
| | | | IZATION of WETLAN | D | |
| SURFACE WATER FLOW VECTORS | | | PLANT SPECIES | | |
| Condition | Percent/Acr | eage | | Z Z U | |
| ** | TO0 | Depressional HIGH Slope GRADIENT Flat Extensive Peatland | * For plant species see delineation data sheets | | |
| | _ | Lacustrine Fringe Riverine | | | |
| | VEGETATION TYP | ES | | | |
| Туре | Percent/Acreage | | | | |
| | - | ACT TURES | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen | <u>40</u> <u>50</u> | SOIL TYPES Histosol Fibric Hemic Sapric Mineral Hydric Soil | | | |
| Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved | \equiv | • Gravelly • Sandy • Silty • Clayey | | COM Common | |
| Emergent Wetland | | GEOLOGY | FW Facultative Wetland | OCC Occasional | |
| Persistent Non-persistent | = | Surficial: TILL | F Facultative FU Facultative Upland OU Obligate Upland | C Canopy S Sapling TS Tall Shrub LS Low Shrub | |
| Aquatic Bed | - | D. 1 . 7 | DOM Dominant | H Herb | |
| Total | | Bedrock: Shale and Soundstone | PRE-EMPT | IVE STATUS | |
| Comments: | | Chart and State | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetland | Documented habitat for state or federal listed species Regionally scarce wetland category Historic/archaeologic | |

WETLAND INVENTORY DATA (continued)

PART 2 - CHARACTERIZATION of MODEL VARIABLES

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: | | |
|--|---|---|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evermess of Distribution Actual S Ever Distribution S Moderately Even Distribution Highly Uneven Distribution 3 | | |
| Wetland Juxiaposition: Connected Upstram and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized HYDROLOGIC VARIABLES Defface Water Level Fluctuation of Wetland: High Fluctuation Never inundated Scarce (<5% of total wetland Scarce (<5% of total wetland area of region) | No Index/No Outlet No Index/Intermittent Outlet No Index/Peremial Outlet Intermittent Index/No Outlet Intermittent Index/No Outlet Intermittent Index/No Outlet Intermittent Index/No Outlet Perennial Index/No Outlet Perennial Index/No Outlet Perennial Index/No Outlet Perennial Index/Perennial Outlet Perennial Index/Perennial Outlet Perennial Index/Perennial Outlet Nested Piezometer Data: Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soila Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed | Vegetation Density/Dominance: Sparse | | |
| Frequency of Overbank Flooding: NA | Perennial Spring Intermittent Spring | High 5 or more plots sampled | | |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Proportion of Animal Food Plants: NA Low (5-25% cover) Medium (25-50% cover) | | |
| pH: NA Acid | Histosol: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty Clayey | High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) | | |
| Wetland Land Use: | | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) | | |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) tland Water Regime! Wet: Perm Flooded, Intermittently Exposed, | VEGETATION VARIABLES Vegetation Lacking: Dominant Wetland Type: | Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scanered or Peripheral | | |
| Semiperm. Flooded Drier: Sessonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Reedle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | Stream Sinuosity: NA Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent | | |

WETLAND INVENTORY DATA

| Project Number: | Concord | 1.5 | D | 16/ | 12/04 | |
|--|-----------------|---------------------------------|------|--------------------------------|------------------------|---------------------------|
| Wetland Number: | W-6. | + | | | | |
| | | 61 | - | | | |
| Aerial Photo Number | ers: Transect | 0.1 | - | | | |
| USGS Quadrangle: | 1.500 1/ | Λ | 110 | | | |
| Field Investigators: | William K | ienny Associates | LL | | | |
| | | | | | | |
| | PART | 1 - CHARACTER | RIZA | TION of WETLAN | D | |
| SURFACE WATER FLOW VECTORS | | PLANT SPECIES | | | | |
| Condition | Percent/Acr | eage | | | OW FLU OU COM | Ŋ. |
| → <u>↓</u> | | Depressional | | blow Birch Dood Fern | 3£2328 | |
| 1 | | | | phagnum | | |
| ###################################### | 85 | Slope GRADIENT | - | · U | | |
| TTT | | Flat | - | | | |
| 1 | | Extensive Peatland | | | | |
| ← | | Extensive reating | | | | |
| V | | | W 12 | or additional plant | | |
| (A) | A, - | Lacustrine | | cies see delineation | | |
| | | Fringe | dat | a sheet | | |
| (A) | 15 | Riverine | - | - | | |
| | | | - | | | |
| | | | | | | 000000 |
| | VEGETATION TYP | ES | - | | | |
| Туре | Percent/Acreage | | | | 0000000 | |
| Forested Wetland | | SOIL TYPES | - | | | |
| Evergreen | 100 | Histosol | | | | |
| Needle-leaved Deciduous | 100 | | | H | | |
| Broad-leaved Needle-leaved | | Hemic Sapric | - | | | |
| | | Mineral | - | | | |
| Scrub Shrub Evergreen | | Hydric Soil | | | | |
| Broad-leaved Needle-leaved | | • Gravelly • Sandy | _ | | | |
| Deciduous | | • Silty • Clayey | _ | | | |
| Broad-leaved Needle-leaved | | c.ajej 🗀 | ow | Obligate Wetland | COM | |
| | | GEOLOGY | FW | Facultative Wetland | occ | Occasional |
| Emergent Wetland. Persistent | | Surficial: TILL | F | Facultative Facultative Upland | C | Canopy Sapling |
| Non-persistent | | 1100 | ou | Obligate Upland | TS LS | Tall Shrub Low Shrub |
| Aquatic Bed | | | DOM | Dominant | H | Herb |
| Total | | Bedrock: Shale and Sandstone | | PRE-EMPT | TVE STATUS | |
| Comments: | | | | Public ownership | | nted habitat for |
| | | | - | _ Wildlife management area | state or species | federal listed |
| | | | | _ Fisheries management | Regions | lly scarce |
| | | | | area Designated State or | | category /archaeologic |
| | | | | Federal protected wetlan | | |

WETLAND INVENTORY DATA (continued)

PART 2 - CHARACTERIZATION of MODEL VARIABLES

| LANDSCAPE VARIABLES | Microrellef of Welland Surface: | Number of Types & Relative Proportions: | | |
|---|--|---|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Largo (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evermess of Distribution Actual # Even Distribution S Moderately Even Distribution Highly Uneven Distribution 3 | | |
| Wetland Juxtaposition: Connected Upstram and Downstream: OFF Only Connected Below Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 0-25% urbanized HYDROLOGIC VARIABLES | Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet Intermittent Outlet Perennial Inlet/No Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Nested Plezometer Data: Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface: Piez. Surface Above or at Substrate clev. Piez. Surface below Substrate clev. Not Available Evidence of Sediment atlon: No Evidence Observed Sediment Observed on Wetland Substrate | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: Migh (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers & Cover 6 or > (actual #) 1. submergents: 5 2. floating: 5 3 4. short herb: 3 6 dwarf shrub: 7. short shrub: 8 tall shrub: 9 sapiling: | | |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | ☐ Fluvaquent Soils Evidence of Seeps and Springs: ☐ No Seeps or Springs ☐ Seeps Observed ☐ Perennial Spring ☐ Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled | | |
| Return Interval > 5 yrs. ** BEAVER Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Proportion of Animal Food Plants: NA Low (5-25% cover) Medium (25-50% cover) | | |
| pH: Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Histosoi: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty | ☐ High (>50% cover) Cover Distribution: ☐ Continuous Cover ☐ Small Scattered Patches ☐ 1 or More Large Patches; Parts of Site Open ☐ Solitary, Scattered Stems Dead Woody Material: ☐ Abrundant (>50 of wetland surface) | | |
| Wetland Land Use: High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) | VEGETATION VARIABLES Vegetation Lacking: | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: | | |
| Low Intensity (ie. open space) Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier; Sessonslly Flooded, Temporarily Flooded, Saturated Basin Topographic Gradlent: High Gradient > 2% Low Gradient < 2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: NA Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent | | |
| 回 High >10% 國 Low <10% | | | | |

WETLAND INVENTORY DATA

| and Number: W-8 | Date: | 10/15/9 1 |
|---|-------|-----------|
| Photo Numbers: Transect 8 | | |
| d Investigators: William Kenny Associates | , LLC | |

| SURFACE WATER FLOW VECTORS | | | PLANT SPECIES | | |
|--|----------------------|---|--|---|--|
| Condition Condition | NOO | Depressional Slope GRADIENT Flat Extensive Peatland Lacustrine Fringe Riverine | * For plant species see delineation data sheet. | | |
| Туре | VEGETATION TYPE | S | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-lesved Emergent Wetland Persistent Non-persistent | 20 30 10 40 | SOIL TYPES Histosol Fibric Hemic Sapric Mineral Hydric Soil Gravelly Sandy Clayey GEOLOGY Surficial: TILL Bedrock: | OW Obligate Wetland FW Facultative Wetland F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant | COM Common OCC Occasional C Canopy S Sapling TS Tall Shrub LS Low Shrub H Herb | |
| otal | | Shale and Sandstone | PRE-EMPTIVE STATUS | | |
| Comments: | | | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetlan | Documented habitat f state or federal listed species Regionally scarce wetland category Historic/archaeologic | |

WETLAND INVENTORY DATA (continued)

PART 2 - CHARACTERIZATION of MODEL VARIABLES

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: | | |
|---|---|---|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evenness of Distribution Actual # Even Distribution S Moderately Even Distribution Highly Uneven Distribution 1 2 | | |
| Wetland Juxiaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurrence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized U-25% urbanized HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation Newer Inundated | No Intet/No Outlet No Intet/Peremial Outlet No Intet/Peremial Outlet Intermittent Intet/No Outlet Intermittent Intet/No Outlet Intermittent Intet/No Outlet Intermittent Intet/No Outlet Intermittent Outlet Perennial Intet/No Outlet Perennial Intet/No Outlet Perennial Intet/Perennial Outlet Perennial Intet/Perennial Outlet Perennial Intet/Perennial Outlet Perennial Intet/Perennial Outlet Nested Plezometer Data: Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface: Piez. Surface Above or at Substrate clev. Piez. Surface below Substrate clev. Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring | Vegetation Density/Dominance: Sparse | | |
| Frequency of Overbank Flooding: Return Interval > 5 yrs. | ☐ Intermittern Spring | Proportion of Animal Food Plants: NA | | |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) Medium (25-50% cover) High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) | | |
| pH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water | Histosol: Fibric Hemic Sapric | | | |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Sity Clayey | | | |
| Wetland Land Use: | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) | | |
| High Intensity (ic. agriculture) Moderate Intensity (ic. forestry) Low Intensity (ic. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scauered or Peripheral >75% Scautered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: NA Highly Convoluted (index 1.50 or >) | | |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved | | | |
| Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: | Scrub Shrub - Evergreen - Brond-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent | | |
| ■ High >10% □ Low <10% | | | | |

| Project Number: | Concord | | Date: 10/13/04 | |
|---|------------------------|--|--|---|
| USGS Quadrangle | iciai | 9.1 | | |
| Fleid Investigators | : William Ke | enny Associates | LLC | |
| SURFA | PART CE WATER FLOW | | RIZATION of WETLAND PLANT SPECIES | |
| Condition | Percent/Acr | | | 900 |
| | <u>30</u> <u>70</u> | Depressional HIGH Slope GRADIENT Flat Extensive Peatland Lacustrine | Merdon Sweet | |
| 9 | VEGETATION TYP | Fringe Riverine ES | * For additional plant 000000000000000000000000000000000000 | 300C 300C 300C |
| Туре | Percent/Acreage | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved | 25 25 20 30 | Histosol Fibric Hemic Sapric Mineral Hydric Soil Gravelly Sandy Silty Clayey | | |
| Needle-leaved Emergent Wetland Persistent Non-persistent Aquatic Bed | | GEOLOGY Surficial: TILL Bedrock: | FW Facultative Wetland OCC Occ F Facultative C Car FU Facultative Upland S Sap OU Obligate Upland TS Tall | nmon casional copy bling I Shrub v Shrub |
| Total | | Shele and Sahdstone | PRE-EMPTIVE STATUS | |
| Comments: | | OND MAN TIME | Public ownership Documented it Wildlife management state or federa area species Fisheries management Regionally scr area wetland categ Designated State or Historic/archa Federal protected wetland area | al listed arce ory |

| Microrelief of Wetland Surface: | Number of Types & Relative Proportions: |
|--|---|
| Pronsunced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: No Inlet/Incomittent Outlet No Inlet/Intermittent Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Rested Piezometer Data: Recharge Horizontal Flow Horizontal Flow Horizontal Plezometric Surface: Plez. Surface Above or at Substrate Elevation to Regional Piezometric Surface: Plez. Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed | Number of Types |
| Sediment Observed on Wetland Substrate | 9. sapling: 10t tree: |
| Evidence of Sceps and Springs: No Sceps or Springs Sceps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low I-2 plots sampled Medium 3-4 plots sampled High 5-or more plots sampled |
| SOIL VARIABLES | Proportion of Animal Food Plants: NA |
| Soil Lacking: | Medium (25-50% cover) High (>50% cover) |
| Histosol: Fibric Hemic Sapric Mineral Hydric Soil: | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems |
| Sandy Silty | Dead Woody Material: Abrundant (>50 of wetland surface) |
| | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) |
| Vegetation Lacking: | Interspersion of Cover and Open Water: |
| Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Broad-leaved Emergent - Persistent Emergent - Non-persistem Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <55% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: \$\text{\$VA}\$ Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: DEPRESSION Several to Many One or Few Absent |
| | Pronounced |

| Project Number: _ | Concord | 4* | _ D | nte:10/13/ | OH | |
|-------------------------------|-----------------|---|--------|---------------------------------|--------------|-------------------|
| Wetland Number: | W-10 ' | | - | | | |
| Photo Numb | ers: Transect | 10.1 | - | | | |
| USGS Quadrangle: | | | | | | |
| Field Investigators | William Ken | ny Associates L | 4. | | | |
| Fleid Investigators. | | 7 | | * | | |
| | PART | 1 - CHARACTER | IZA | TION of WETLAN | ID | |
| SURFAC | CE WATER FLOW | VECTORS | | PLAN | T SPECIES | |
| Condition | Percent/Acre | eage | | | PW PW OU DOW | 2 20 20 |
| | | | * Fou | - plant species see | 05 = 50 50 | 000000 |
| ->V | | Depressional | | invention duta she | | |
| 1 | | - 1.24 | -22.50 | ALT: ILVI | | |
| dorbob | 100 | Slope GRADIEND | | | | |
| TTT | 10- | Flat | | | 000000 | |
| A | | | | | . 000000 | |
| T | | Extensive Peatland | | | | |
| | - | , and the same of | _ | | . 000000 | |
| V | | | - | | . 000000 | |
| | | | - | | . 000000 | |
| 門月 | - | Lacustrine | | | . 0000000 | |
| THE | | Fringe | - | | | |
| (A)(A) | | Riverine | - | | | |
| | | | | | | |
| | | | - | | | |
| | VEGETATION TYP | ES | | | | |
| Туре | Percent/Acreage | | _ | | | |
| | | SOIL TYPES | - | | | |
| Forested Wetland | | SOIL TIPES | | | | |
| Evergreen Needle-leaved | | Histosol | | | | |
| Deciduous | - | • Fibric • Hemic | | T. | | |
| Broad-leaved | 90 | Hemic Sapric | _ | | | 200000 |
| Needle-leaved | | Supris 🗀 | - | | | |
| Scrub Shrub | | Mineral | | | | |
| Evergreen | • | Hydric Soil • Gravelly | _ | | | |
| Broad-leaved Needle-leaved | ***** | • Sandy | | | | |
| Deciduous | | • Silty | - | | | |
| Broad-leaved | 10 | • Clayey 🔲 | - | | | |
| Needle-leaved | | | OW | Obligate Wetland | COM | Occasional Common |
| Emergent Wetland | | GEOLOGY | FW | Facultative Wetland Facultative | C | Canopy |
| Persistent | | Surficial: TILL | FU | Facultative Upland | S | Sapling |
| Non-persistent | | | ou | Obligate Upland | TS | Tall Shrub |
| Aquatic Bed | | 12000 | DOM | Dominant | LS H | Low Shrub Herb |
| Total | | Bedrock: Shake and Sandstone | | PRE-EMPT | TIVE STATUS | |
| Comments: | | 21 | | _ Public ownership | Docume | nted habitat for |
| 110 | | | - | Wildlife management | state or | federal listed |
| | | | | area _ Fisheries management | species | lu searce |
| | | | - | _ risheries management | | ly scarce |
| | | | | _ Designated State or | Historic | archaeologic |
| | | | | Federal protected wetlan | | |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: |
|--|--|---|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Propounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evenness of Distribution Actual # Even Distribution Moderately Even Distribution Highly Uneven Distribution 3 |
| Wetland Juxiaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Peremial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Outlet Peren | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers & Cover 6 or > (actual #) 1. submergents: 1 3 4 33 moss-lichen: 3 4 4 35 short herb: 2 3 tall herb: 4 4 4 4 35 tall herb: 5 5 tall shrub: 6 4 4 4 4 4 5 tall shrub: 7 short shrub: 8 tall shrub: |
| HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: NA | Sediment Observed on Wetland Substrate Fluvaquent Soila Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Proportion of Animal Food Plants: NA Low (5-25% cover) Medium (25-50% cover) |
| pH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland | Historol: Fibric Hemic Supric Mineral Hydric Soil: | ☐ High (>50% cover) Cover Distribution: ☐ Continuous Cover ☐ Small Scattered Patches ☐ 1 or More Large Patches; Parts of Site Open ☐ Solitary, Scattered Stems |
| Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Gravelly Sendy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| Wetland Land Use: High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral |
| Wetland Water Regime? Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outlow Unrestricted Outlow No Outlow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: NA Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |

| Project Number: | Concard | 6.* | _ Date: | 10/ | 22/04 | |
|--|-----------------|--|--------------------------------------|--|---|---|
| Wetland Number: | W-11 1. | | | | | |
| | pers: Transact | 11.1 | _ | | | |
| USGS Quadrangle: | | | | | | |
| Field Investigators | 1111: 12. | nry Associates, | LLC | | | |
| | | | | | | |
| | PART | 1 - CHARACTER | RIZATIO | N of WETLAN | D OI | |
| SURFA | CE WATER FLOW V | 'ECTORS - | | PLAN | T SPECIES | |
| Condition | Percent/Acre | age | | | OW FF FU OU DOM | Ŋ |
| | 100 | Depressional Low+HIGH Slope GRADIENT Flat Extensive Peatland Lacustrine Fringe Riverine | | ant species lineation data | | |
|) | | | | 0000000 | | |
| Туре | VEGETATION TYPI | ES | | - | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Emergent Wetland Persistent Non-persistent | 20 80 | Histosol Fibric Hemic Sapric Mineral Hydric Soil Gravelly Sandy Clayey GEOLOGY Surficial: | FW Fac F Fac FU Fac OU Obli | igate Wetland ultative Wetland ultative ultative Upland igate Upland | | |
| Aquatic Bed | - | Bedrock: | DOM DOM | | н | Herb |
| Total | | Shake and | | | TIVE STATUS | |
| Comments: | | Sundstone | W | ublic ownership fildlife management rea sheries management rea esignated State or ederal protected wetla | state or species Regions wetland Historic | nted habitat for federal listed Ily scarce category /archaeologic |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: |
|--|---|---|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evermens of Distribution Actual # Even Distribution S Moderately Even Distribution Highly Uneven Distribution 3 |
| Wetland Juxtaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural: Predictable Frequency Natural: Sporadic Frequency | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Perennial Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Nested Piezometer Data: | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: |
| Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence | Recharge Discharge Horizontal Flow Not Available | High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: |
| Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land User | Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez Surface Above or at Substrate clev. Piez Surface below Substrate clev. | Number of Layers S Cover 6 or > (actual #) 1. submergents: 2. floating: 3. moss-lichen: short herb: |
| > 50% urbanized 25-50% urbanized 0-25% urbanized HYDROLOGIC VARIABLES | Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate | 2 5. tall herb: 6. dwarf shrub: 7. short shrub: 8. tall shrub: 9. sapling: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Proportion of Animal Food Plants: NA Low (5-25% cover) Medium (25-30% cover) High (>50% cover) |
| pH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No-Water | Histosol: Fibric Hemic Sapric | Cover Distribution: Continuous Cover Small Scattered Patches I or More Large Patches; Parts of Site Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| Wetland Land Use: High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Slnuosity: NA |
| Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outlow Unrestricted Outflow No Outflow | Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Dociduous - Broad-leaved Scrub Shrub - Dociduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |
| Ratio of Wetland Area to Watershed Area: High >10% Low <10% | | |

| Wetland Number: | bers: Transact 12 | 1.1 | - | | | |
|--|-------------------|-----------------------------|----------------|---|------------------------------------|-----------------------------------|
| | | | - | | | |
| USGS Quadrangle | | . 1 | 11 | | | |
| Fleid Investigators | : William Kenr | 14 Mssocientes | ,LL | <u>C</u> | | |
| | PART 1 | - CHARACTER | IZAT | TION of WETLAN | ND | |
| SURFA | CE WATER FLOW VE | | T | | T SPECIES | |
| Condition | Percent/Acreag | e | | | PW FW FU DOW COM | S SS |
| → ← | _ | Depressional | | plant species see newtion data sheet: | 35.238° 000000 000000 | |
| ## | 100 | Slope GRADIENT | | | - 00000000 - 00000000 | J00000 J00000 |
| <- <u>↑</u> → | | Extensive Peatland | = | | . 00000001 10000000 10000000 | 30000C |
| | | | | | | |
| | | Lacustrine Fringe | Ξ | | . 00000000 . 00000000 | |
| | | Riverine | = | | . 00000000 . 00000000 | |
| | VEGETATION TYPES | 9 | _ | | | |
| Туре | Percent/Acreage | | | | | |
| Forested Wetland Evergreen Needle-leaved | 5 | Histosol | = | | | |
| Deciduous Broad-leaved Needle-leaved | 45 | • Fibric • Hemic • Sapric | | | | |
| Scrub Shrub Evergreen | | Mineral Hydric Soil | = | | | 100000 100000 |
| Broad-leaved Needle-leaved Deciduous | 5 | • Gravelly | = | | |) |
| Broad-leaved Needle-leaved | 45 | • Clayey 🔲 | ow | Obligate Wetland Facultative Wetland | COM | Common Occasional |
| Emergent Wetland Persistent Non-persistent | = | Surficial: TILL | FW FU OU | Facultative Facultative Upland Obligate Upland | C S TS | Canopy Sapling Tall Shrub |
| Aquatic Bed | | Dedicado | DOM | Dominant | LS H | Low Shrub Herb |
| Total | _ | Bedrock: Shafe and | | PRE-EMP | TIVE STATUS | |
| Comments: | | Scholstone | | Public ownership Wildlife management area | state or f | nted habitat for ederal listed |
| | | | = | Fisheries management area Designated State or Federal protected wetla | species Regional wetland Historic/ | |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: Number of Types Evenness of Distribution |
|--|--|--|
| Size: Small (<10 scres) Medium (10-100 scres) Large (>100 scres) | ☐ Well Developed 15-45 cm ☐ Poorly Developed <15 cm ☐ Absent | Actual # |
| Wetland Juxiaposition: Connected Upstram and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized | Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/No Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface: Piez. Surface Above or at Substrate elev. Pier. Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers |
| HYDROLOGIC VARIABLES | Sediment Observed on Wetland Substrate Fluvaquent Soils | 9. sapling: 10. tree: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: k)A |
| Return Interval 1-2 yrs. No Overbank Flooding | Soil Lacking: | Low (5-25% cover) Medium (25-50% cover) High (>50% cover) |
| pH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland | Histosol: Fibric Hemic Sapric Mineral Hydric Soil: | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems |
| Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Gravelly Sandy Silty | Dead Woody Material: Abrundant (>50 of wetland surface) |
| Wetland Land Use: | VEGETATION VARIABLES | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (le. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: |
| Wetland Water Regime? Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Will Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few |

| Project Number: _ | Concord | | Date: | 1104 | |
|--|---|----------------------|--|---|-----------------------|
| | t \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | | |
| Wetland Number: | | S.1 | - | | |
| , Photo Numb | ers: Transect 1 | Sch | - 4 | | |
| USGS Quadrangle: | | 1 | | | |
| Field Investigators: | William Kenr | y Associates, L | K | | |
| | | , | | | |
| | PART | - CHARACTER | IZATION of WETLAN | D | |
| 1 | 17777 | | | | |
| SURFAC | CE WATER FLOW V | | PLAN | T SPECIES | |
| Condition | Percent/Acre | age | | PW PW OUT | 3 |
| 1 | | | Sphagnum | | |
| → <u>v</u> ← | | Depressional | Tree Club Moss | | |
| Ť | 1. | 1 012 | - | | |
| ###################################### | 60 | Slope GRADIENT | 1 | | |
| T V V | | Flat | | | |
| 1 | 1 | Extensive Peatland | | | |
| <> | - | Exicisive Peatland | | 0000000 | |
| V | | | - 47: 1 / 1 | | |
| | ~ | 2.00.00 | * For additional plant | | |
| | 0.4.4 | Lacustrine Fringe | species see delineation duta sheets | | |
| - Alex | Ma | | Mare Specis | | |
| 0 | 40 | Riverine | | | |
| | | | | | |
| | | | - | | |
| | VEGETATION TYPE | ES | | | |
| Type | Percent/Acreage | | - | | |
| | | SOIL TYPES | | | |
| Forested Wetland Evergreen | al a | | | | |
| Needle-leaved | -5 | Histosol • Fibric | | | |
| Deciduous | 45 | • Hemic | - | | |
| Broad-leaved Needle-leaved | | - Sapric 🔲 | | | |
| 0 1 01 1 | | Mineral | | | |
| Scrub Shrub Evergreen | | Hydric Soil | | | |
| Broad-leaved | 3 | Gravelly | | | |
| Needle-leaved Deciduous | 1.00 | - Silty 🔲 | | | |
| Broad-leaved | 45 | - Clayey | | | |
| Needle-leaved | | | OW Obligate Wetland FW Facultative Wetland | COM | Occasional |
| Emergent Wetland | | GEOLOGY | F Facultative | С | Canopy |
| Persistent Non-persistent | - | Surficial: Alluna | FU Facultative Upland OU Obligate Upland | S TS | Sapling Tall Shrub |
| | | | OU Obligate Upland DOM Dominant | LS | Low Shrub |
| Aquatic Bed | - | Bedrock: | CAS ACTUAL | Н | Herb |
| Total | - | State and | PRE-EMPT | TIVE STATUS | |
| Comments: | | Sandstone | Public ownership | Document | ted habitat fo |
| A | | | Wildlife management | | ederal listed |
| / | | | Fisheries management | species Regionally | y scarce |
| | ~ | _ | area | wetland c | ategory |
| | | | Designated State or | Historic/a | rchaeologic |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: |
|--|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evenness of Distribution Actual # Even Distribution S Moderately Even Distribution Highly Uneven Distribution Highly Uneven Distribution |
| Wetland Juxtaposition: Commetted Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Human-caused; Predictable Human-caused; Sporadic Reference Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized - 25% urbanized HYDROLOGIC VARIABLES | No Indet/No Outlet No Indet/Intermittent Outlet No Indet/Intermittent Outlet Intermittent Indet/No Outlet Intermittent Indet/No Outlet Intermittent Indet/Intermittent Outlet Intermittent Outlet Perennial Indet/No Outlet Perennial Indet/No Outlet Perennial Indet/Perennial Outl | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers % Cover 6 or > (actual #) 1. submergents: 5 2. floating: 6 or > (actual #) 1. submergents: 5 3 4. short herb: 1 5. tall herb: 1 6. dwarf shrub: 8 1 shrub: 8 1 shrub: 9 sapiling: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval 2-5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Proportion of Animal Food Plants: NA Low (5-25% cover) Medium (25-50% cover) |
| pH: №A | Historol: Fibric Hemic Sapric | ☐ High (>50% cover) Cover Distribution: ☐ Continuous Cover ☐ Small Scattered Patches ☐ 1 or More Large Patches; Parts of Site Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| Welland Land Use: High Intensity (ie. sgriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratlo of Wetland Area to Watershed Area: High >10% Low <10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |

| Vetland Number: W-14 111 | Date: | 10/14/04 | |
|--|-------|----------|--|
| isGS Quadrangle: William Kenny Associates, | ШС | | |

| SURFA | CE WATER FLOW VE | CTORS | PLANT SPECIES | | |
|--|------------------|--|--|--|--|
| Condition Condition | Percent/Acreag | Depressional Slope GRADIENT Flat Extensive Peatland Lacustrine Fringe Riverine | * For plant species sec delineation data shout | | |
| | VEGETATION TYPES | | | . 000000000000000000000000000000000000 | |
| Туре | Percent/Acreage | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Crub Shrub Evergreen Broad-leaved Needle-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Meedle-leaved Needle-leaved Needle-leaved Needle-leaved Meedle-leaved Meedle-leaved | 50 50 | Histosol Fibric Hemic Sapric Mineral Hydric Soil Gravelly Sandy Clayey GEOLOGY Surficial: | OW Obligate Wetland FW Facultative Wetland F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant | COM Common OCC Occasional C Canopy S Sapling TS Tall Shrub LS Low Shrub H Herb | |
| otal | | Bedrock: Shate and Sandstone | PRE-EM | PTIVE STATUS | |
| Comments: | | | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wet | wetland category Historic/archaeologic | |

| LANDECADE VADIABLE | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: |
|---|--|---|
| LANDSCAPE VARIABLES Size: Small (<10 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Peremial Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Restarge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Piez. Surface below Substrate elev. Piez. Surface below Substrate elev. Fiv. Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed | Number of Types & Relative Proportions: Number of Types Beenness of Distribution Actual # Beenness of Distribution Moderately Even Distribution Moderately Even Distribution Highly Uneven Distribution Number of Layers (6-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers Acover Number of Layers Scover Number of Layers Scover Number of Layers Scover Story (actual #) Submergents: 1 Goating: 1 Goating: 1 Goating: 1 Short shrub: 3 short shrub: 5 stall shrub: 9 sapling: 1 tree: Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled Medium 3-5 or more plots sampled |
| Frequency of Overbank Flooding: NA Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding PH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water | Perennial Spring Intermittent Spring SOIL VARIABLES Soil Lacking: Histosol: Fibric Hemic Sapric | Proportion of Animal Food Plants: UA Low (5-25% cover) Medium (25-50% cover) High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches I or More Large Patches; Parts of Site Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till Wetland Land Use: High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) | Mineral Hydric Soil: Gravelly Sandy Sity Clayey VEGETATION VARIABLES Vegetation Lacking: | Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: |
| Low Intensity (Ic. open space) Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded. Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient >2% Low Gradient C2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral 225% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: NA Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: NA Several to Many One or Few Absent |

| roject Number: Concord | Date: | 10/14/04 | |
|---|-------|----------|---|
| Vetland Number: W-15 | _ | | |
| Photo Numbers: Transect 15.1 | | | |
| sed Investigators: William Kenny Associates | LLC | | _ |

| SURFAC | CE WATER FLOW VE | CTORS | PLANT SPECIES | | |
|--|------------------|--|--|---|--|
| Condition Condition | Percent/Acres | | Hemlock Lady Fern * For additional plant species see delineation data sheet | | |
| | V | Riverine | | | |
| | VEGETATION TYPES | | - | | |
| Туре | Percent/Acreage | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Emergent Wetland Persistent Non-persistent | 5 45 50 | SOIL TYPES Histosol Fibric Hemic Sapric Mineral Hydric Soil Gravelly Sandy Clayey GEOLOGY Surficial: | OW Obligate Wesland FW Facultative Wetland F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant | COM Common OCC Occasional C Canopy S Sapling TS Tall Shrub LS Low Shrub H Herb | |
| otal | | Bedrock: Shale and Sandstone | PRE-EMPT | TIVE STATUS | |
| Comments: | | and serastore | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetlar | Documented habitat for state or federal listed species Regionally scarce wetland category Historic/archaeologic | |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: Pronounced >45 cm | Number of Types & Relative Proportions: Number of Types Evenness of Distribution |
|--|---|---|
| Size: Small (<10 acres) | ☐ Well Developed 15-45 cm ☐ Poorty Developed <15 cm | Actual # Even Distribution 5 M Moderately Even Distribution |
| Medium (10-100 acres) Large (>100 acres) | Absent | Highly Uneven Distribution |
| | Inlet/Outlet Class: | 0 1 |
| Wetland Juxtaposition: Connected Upstream and Downstream | ☐ No Inlet/No Outlet ☐ No Inlet/Intermittent Outlet | |
| Only Connected Above | ☐ No Inlet/Perennial Outlet | Vegetation Density/Dominance: |
| Only Connected Below Other Wetlands Nearby but not Connected | Intermittent Inter/No Outlet Intermittent Inter/Intermittent Outlet | ☐ Sparie (0-20%) ☐ Low Density (20-40%) |
| Other Wetlands Nearby but not Connected Wetland Isolated | Intermittent Outlet/Perennial Outlet | Medium Density (40-60%) |
| Fig. O and Frequency: | Perennial Inlet/No Outlet Perennial Inlet/ Intermittent Outlet | High Density (60-80%) Very High Density (80-100%) |
| Fire Occurence and Frequency: Natural; Predictable Frequency | Perennial Inlet/Perennial Outlet | |
| ☐ Natural: Sporadic Frequency | Nested Piezometer Data: | Vegetative Interspersion: |
| Human-caused; Predictable Human-caused; Sporadic | ☐ Recharge | High (small groupings, diverse and interspersed) Moderate (broken irregular rings) |
| Rare Event | ☐ Discharge | Low (large patches, concentric rings) |
| No Evidence | Horizontal Flow Not Available | Number of Layers and Percent Cover: |
| Regional Scarcity: | Relationship of Wetlands' Substrate Elevation | Number of Layers % Cover |
| Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) | to Regional Plezometric Surface: | 6 or > (actual #) 1. submergents: 2. floating: |
| | Piez, Surface Above or at Substrate clev. | 4 3 moss-lichen: |
| Watershed Land Use: | Piez. Surface below Substrate elev. | 3 4. short herb: |
| > 50% urbanized 25-50% urbanized | Not Available | I 6. dwarf shrub: |
| 0-25% urbanized | Evidence of Sedimentation: | 7. short shrub: 8. tall shrub: |
| HYDROLOGIC VARIABLES | No Evidence Observed Sediment Observed on Wetland Substrate | 9. sapling: |
| | ☐ Fluvaquent Soils | (10) uco: |
| Surface Water Level Fluctuation of Welland: | Evidence of Seeps and Springs: | Plant Species Diversity: |
| High Fluctuation Low Fluctuation | No Seeps or Springs | Low 1-2 plots sampled |
| ☐ Never Inundated | Seeps Observed | Medium 3-4 plots sampled High 5 or more plots sampled |
| Frequency of Overbank Flooding: NA | Perennial Spring Intermittent Spring | |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: NA |
| Return Interval 1-2 yrs. | | Low (5-25% cover) Medium (25-50% cover) |
| ☐ No Overbank Flooding | Soil Lacking: | High (>50% cover) |
| pH: NA | Histosol: | Cover Distribution: |
| ☐ Acid <5.5 ☐ Circumneutral 5.5-7.4 | Fibric | ☐ Continuous Cover |
| ☐ Alkaline >7.4 | ☐ Hemic | Small Scattered Patches |
| ☐ No Water | ☐ Sapric | ☐ 1 or More Large Patches; Parts of Site Open ☐ Solitary, Scattered Stems |
| Surficial Geologic Deposit Under Wetland | Mineral Hydric Soil: | |
| Low Permeability Stratified Deposits High Permeability Stratified Deposits | Gravelly Sandy | Dead Woody Material: |
| Glacial Till | ☐ Silty | ☐ Abrundant (>50 of wetland surface) |
| Weiland Land Use: | Clayey | Moderately Abrundam (25-50% of surface) Low Abrundance (0-25% of surface) |
| High Intensity (ie. agriculture) | VEGETATION VARIABLES | Interspersion of Cover and Open Water: |
| Moderate Intensity (le. forestry) | Vegetation Lacking: | |
| Low Intensity (ie. open space) | | 26-75% Scattered or Peripheral >75% Scattered or Peripheral |
| Wetland Water Regime? Wet: Perm Flooded, Intermittently Exposed, | Dominant Weiland Type: | Classification of Peripheral |
| Semiperm. Flooded | ☐ Forested - Evergreen - Needle-leaved | 100% Cover or Open Water |
| Drier: Seasonally Flooded, Temporarily Flooded. | Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved | Stream Sinusity: NA |
| Saturated | ☐ Forested - Deciduous - Needle-leaved ☐ Scrub Shrub - Evergreen - Broad-leaved | Highly Convoluted (index 1.50 or >) |
| Busin Topographic Gradient: | Scrub Shrub - Evergreen - Needle-leaved | Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 |
| High Gradient >2% Low Gradient <2% | Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved | |
| Degree of Outlet Restriction: | ☐ Emergent - Persistent | Presence of Islands: |
| Restricted Outflow | ☐ Emergent - Non-persistent ☐ Aquatic Bed | Several to Many |
| Unrestricted Outflow | | One or Few |
| ☐ No Outflow | | |
| Ratio of Wetland Area to Watershed Area: | | |
| ☐ High >10% | | |

| Project Number: | Concord | 4.0 | _ Date: | 10/14/04 | |
|---|--------------------------|---|---|--------------------------|---|
| Wetland Number: | w-16 bers: Transact 1 | 6.1 | - | | |
| Field Investigators | : William Ken | my Associates, | LLC | | |
| CHIDEA | PART 1 | - CHARACTER | IZATION of | WETLAND PLANT SPECIES | |
| | | | | | that one |
| Condition | Percent/Acrea | Depressional | * For plant; See deliner sheet. | species 0000 | |
| **** | = . | Slope Flat Extensive Peatland | | 00000 | |
| | · — | Lacustrine Fringe Riverine | | | |
| | VEGETATION TYPE | S | | | |
| Туре | Percent/Acreage | | | 0000 | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved | <u>5</u> 95 | Histosol • Fibric • Hemic • Sapric | | | |
| Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved | = | Mineral Hydric Soil Gravelly Sandy Silty Clayey | | | 30303000 30303000 30303000 30303000 |
| Needle-leaved Emergent Wetland Persistent Non-persistent Aquatic Bed | | GEOLOGY Surficial: TILL | OW Obligate Wei FW Facultative V F Facultative I OU Obligate Upl DOM Dominant | Vetland Jpland and | COM Common OCC Occasional C Canopy S Sapling TS Tall Shrub LS Low Shrub |
| | | Bedrock: Shele | | | H Herb |
| Total | _ | and sandstone | | PRE-EMPTIVE STATUS | |
| Comments: | | | Public ow Wildlife | | cumented habitat for te or federal listed |

area

Fisheries management

Designated State or Federal protected wetland

Regionally scarce wetland category Historic/archaeolegic

species

arca

| LANDSCAPE VARIABLES Size: | Microrellef of Wetland Surface: Pronounced >45 cm Well Developed 15-45 cm | Number of Types & Relative Proportions: Number of Types Evenness of Distribution Actual # Even Distribution |
|---|---|--|
| ■ Small (<10 acres) □ Medium (10-100 acres) □ Large (>100 acres) | Poorly Developed <15 cm Absent | Moderately Even Distribution Highly Uneven Distribution |
| Wetland Juxtaposition: Connected Upstram and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural: Predictable Frequency Natural: Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized | Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Intermittent Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Recharge Inscharge Inscharge Recharge Pischarge Pischarge Pischarge Pischarge Pischarge Pischarge Not Available Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed | Vegetation Density/Dominance: Sparse |
| HYDROLOGIC VARIABLES | No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soils | 9. sapling: 10. tree: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled Proportion of Animal Food Plants: NA |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Low (5-25% cover) |
| ☐ Return Interval 1-2 yrs. ☐ No Overbank Flooding | Soil Lacking: | Medium (25-50% cover) High (>50% cover) |
| pH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water | Histosol: Fibric Hemic Sapric | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty | Dead Woody Material: Dead Woody Material: Abrundant (>50 of wetland surface) |
| Wetland Land Use: | VEGETATION VARIABLES | Moderately Abrandant (25-50% of surface) Low Abrundance (0-25% of surface) |
| High Intensity (ic. agriculture) Moderate Intensity (ic. forestry) Low Intensity (ic. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scaucred or Periphenal |
| Wetland Water Regime? Wet: Perm Flooded, Interminently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow | Dominant Wetland Type: Forested - Evergreen - Needle-leaved | >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: NA Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many |
| Unrestricted Outflow No Outflow Ratlo of Wetland Area to Watershed Area: High >10% Low <10% | ☐ Aquatic Bed | One or Few Absent |

| | | WETLAND IN | ENTORY DATA | |
|---|------------------|---|---|---|
| Project Number: _ | Concoral | 1.5 | Date: 10/14/ | 04 |
| Weiland Number: | - W-17 . | - L | | |
| | ers: Transect | 1.0 | | |
| USGS Quadrangle: | | | | |
| Field Investigators: | / 111 / | my Associates | , UC | |
| Field Investigators. | | 1 | | |
| | PART 1 | - CHARACTER | IZATION of WETLAN | ID . |
| SURFA | CE WATER FLOW VI | ECTORS | PLAN | T SPECIES |
| Condition | Percent/Acres | ige | | FW FU OU CCOM CCOM CCOM CCOM |
| →^← | 100 | Depressional | * For plant species see delimention clota sheet. | . 000000000000 2000000000000000000000000 |
| ## | <u>-</u> | Slope Flat | | . 000000000000000000000000000000000000 |
| $\leftarrow \stackrel{T}{\downarrow} \rightarrow$ | - | Extensive Peatland | | . 000000000000 20000000000 200000000000 |
| | - | Lacustrine Fringe | | |
|) 👳 | • | Riverine | | |
| | VEGETATION TYPE | S | | |
| Туре | Percent/Acreage | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved | <u>40</u> 10 | Histosol Fibric Hemic Sapric | | |
| Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved | 25 | Mineral Hydric Soil Gravelly Sandy Silty Clayey | | 00000000000000000000000000000000000000 |
| Needle-leaved Emergent Wetland Persistent Non-persistent | | GEOLOGY Surficial: TILL | OW Obligate Wetland FW Facultative Wetland F Facultative FU Facultative Upland OU Obligate Upland | COM Common OCC Occasional C Canopy S Sapling TS Tall Shrub |
| Aquatic Bed | | | OU Obligate Upland DOM Dominant | LS Low Shrub |
| | · | Bedrock: Shete | | H Herb |
| Total | _ | and Sandstone | | TIVE STATUS |
| Comments: | | | Public ownership Wildlife management area Fisheries management area Designated State or | Documented habitat state or federal lister species Regionally scarce wetland category Historic/archaeologic |

area
Designated State or
Federal protected wetland

area

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: |
|--|---|---|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evenness of Distribution Actual # Even Distribution 5 Moderately Even Distribution 4 Highly Uneven Distribution |
| Wetland Juxtaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized O-25% urbanized O-25% urbanized | No Inlet/No Outlet | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers % Cover 6 or > (actual #) 1. submer gents: 5 2. floating: 4 3. moss-lichen: 3 4. short herb: 1 6. dwarf shrub: 7. short shrub: |
| HYDROLOGIC VARIABLES | No Evidence Observed Sediment Observed on Wetland Substrate | 8. tall shrub: (9) sapling: 10 |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never inundated Frequency of Overbank Flooding: Return Interval > 5 yrs. | Fluvaquent Solfs Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled Proportion of Animal Food Plants: NA |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) Medium (25-50% cover) High (>50% cover) |
| pH: NA Acid <5.5 Circumneural 5.5-7.4 Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland | Histosol: Fibric Hemic Sapric Mineral Hydric Soil: | Cover Distribution: Continuous Cover Small Scattered Patches I or More Large Patches; Parts of Site Open Solitary, Scattered Stems |
| Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Gravelly Sandy LITTLE SAND Sitty Clavey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| Wetland Land Use: High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (le. open space) | VEGETATION VARIABLES Vegetation Lacking: | Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: |
| Wetland Water Regime: Wet Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradlent: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: \A Highly Convoluted (Index 1.50 or >) Moderately Convoluted (Index 1.25-1.50) Straight/Slightly Irreg. (Index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |

| Wetland Number: | W-18 | | - | | | |
|--------------------------------|---------------------|---|------|--------------------------------------|--|---|
| Photo Numb | bers: Transact 18.1 | | _ | | | |
| USGS Quadrangle | | | | | | |
| Field Investigators | : William Kenny | Associates, | MC | | | |
| A leta all vestigators | , | | | | | |
| | PART 1 - | CHARACTER | IZA | TION of WETLAN | ID | |
| CUDEA | CE WATER FLOW VE | | Γ | | T SPECIES | |
| _ | Percent/Acreage | | 1 | 1 2/41 | 9 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 | |
| Condition | Telcenowcreag | - | 100 | A Comment | PW FU OU COM | S 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| 1 | 100 | Demossicant | + Fo | plant species see | | |
| → <u></u> ← | 100 | Depressional | del | neutron data sheet | | |
| | | | | | | |
| | - | Slope Flat | | | | |
| A . | - | List | | | | |
| _1_ | | Extensive Peatland | - | | . 0000000 | |
| 1 | - | | _ | | | |
| 100 | | | - | | | |
| | | Lacustrine | | | | |
| | _ | Fringe | | | | |
| ~~ | | Riverine | | | | |
| | | Kiveinie | | | | |
| | | | - | | | |
| | VEGETATION TYPES | | 1 | | | |
| Terra | | | | | | |
| Туре | Percent/Acreage | | | | | |
| Forested Wetland | | SOIL TYPES | _ | | | |
| Evergreen | 50 | Histosol | - | | | |
| Needle-leaved Deciduous | 50 | • Fibric | | | | |
| Broad-leaved | 50 | • Hemic • Sapric | | | | |
| Needle-leaved | | · Sapric 🖂 | | | | 00000 |
| Scrub Shrub | | Mineral | _ | | | |
| Evergreen Broad-leaved | 7 | Hydric Soil Gravelly | + | | | |
| Needle-leaved | | • Sandy | - | | | |
| Deciduous | | • Silty . Clayey . | - | | | |
| Broad-leaved Needle-leaved | | | ow | Obligate Wetland | COM | Common |
| P | | GEOLOGY | FW | Facultative Wetland | occ | Occasional |
| Emergent Wetland Persistent | | Surficial: TILL | FU | Facultative Facultative Upland | C S | Canopy Sapling |
| Non-persistent | | 500000000000000000000000000000000000000 | OU | Obligate Upland | TS | Tall Shrub |
| Aquatic Bed | | | DOM | Dominant | LS H | Low Shrub Herb |
| Total | | Bedrock: Shale | | DDV FLAN | | Helo |
| | _ | and sandstone | | | TIVE STATUS | |
| Comments: | | | - | Public ownership Wildlife management | | ned habitat for ederal listed |
| | | | | area | species | |
| | | | - | Fisheries management | Regional | ly scarce |
| | | | | _ Designated State or | wetland Historic/ | rchaeolegic |
| | | | | Federal protected wetlar | | |

| LANDSCAPE VARIABLES | Microrellef of Welland Surface: | Number of Types & Relative Proportions: |
|--|---|--|
| Size: | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evenness of Distribution Actual # Even Distribution Moderately Even Distribution Highly Uneven Distribution |
| Wetland Juxia position: Commected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: >50% urbanized 0-25% urbanized 0-25% urbanized | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Peremial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Outlet/Peremial Outlet Perennial Inlet/No Outlet Peremial Inlet/Peremial | 2 1 1 Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large pauches, concentric rings) Number of Layers and Percent Cover: Number of Layers and Percent Cover: Number of Layers & Cover 6 or > (actual #) 1. submergents: 5 2. floating: 4 3 4 3 4 5 5 5 6 6 6 6 6 6 6 |
| HYDROLOGIC VARIABLES | No Evidence Observed Sediment Observed on Wesland Substrate | 8. tall shrub: (5) sapling: (10) tree: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: |
| Return Interval 1-2 yrs. No Overbank Flooding | Soil Lacking: | Medium (25-50% cover) High (>50% cover) |
| pH: | Histosol: Fibric Hemic Sapric | Cover Distribution: Continuous Cover Small Scattered Patches of the Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty | Dead Woody Material: Abrundant (>50 of wetland surface) |
| Wetland Land Use: High Intensity (ic. agriculture) | VEGETATION VARIABLES | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) |
| Moderate Intensity (ic. forestry) Low Intensity (ic. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: |
| Wetland Water Regime? Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratto of Wetland Area to Watershed Area: | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <5% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |
| ☐ High >10% ☐ Low <10% | | |

| Project Number: . | Concord. | | Date: | 10/27 | 1/04 | |
|--|------------------|---------------------------------|------------------------------------|---------------|------------------------|--------------------------|
| | -(a)-19 | | | | | |
| Wetland Number: | | 9.1 | • | | | |
| Photo Numb | pers: Transect 1 | 111 | 5 | | | |
| USGS Quadrangle | | 1 | | | | |
| Field Investigators | William Kenr | y Associates | LLC | | | |
| | | | | | | |
| | PART | - CHARACTER | IZATION of W | ETLANI | O C | |
| | | | | | | |
| | CE WATER FLOW V | | | PLANT | SPECIES | |
| Condition | Percent/Acre | age | 1000 | | OW FU DOW COM | 50 1 2 5 5 |
| -> | | Depressional | * For plant species delineation de | es sec | 0000000 | 000000 00000 |
| 1 | 1200 | HIGH | | | | 00000 |
| ###################################### | 100 | Slope GRADIENT | | | | |
| 1 1 1 | - | Flat | | | | |
| 1 | | Extensive Peatland | | | | |
| ← | _ | Extensive I canalin | | | | |
| V COTT | | | | | | |
| | | Lacustrine | | | | |
| | | Fringe | | | | |
| 0.0 | | Riverine | | | | |
| 22 | - | Misimo | | | | |
| | | | | | | |
| | VEGETATION TYPE | ES | | | | |
| Type | Percent/Acreage | | | | | |
| | | SOIL TYPES | | | | |
| Forested Wetland | | SOLLTIFES | | | المحمد محمد | 500000 |
| Evergreen Needle-leaved | 50 | Histosol • Fibric | | | 0000000 | |
| Deciduous Broad-leaved | 50 | • Hemic 🔲 | | | | |
| Needle-leaved | | - Sapric 🔲 | | | | |
| Scrub Shrub | | Mineral | | | 0000000 | |
| Evergreen | | Hydric Soil • Gravelly | | | | |
| Broad-leaved Needle-leaved | | - Sandy | | | | |
| Deciduous Broad-leaved | | · Silty | | | | |
| Needle-leaved | | | OW Obligate Wetlan | | сом | |
| Emergent Wetland | | GEOLOGY | FW Facultative Wet F Facultative | land | C | Occasional Canopy |
| Persistent | | Surficial: TILL | FU Facultative Upl | and | S | Sapling |
| Non-persistent | _ | | OU Obligate Uplane DOM Dominant | 1 | TS LS | Tall Shrub Low Shrub |
| Aquatic Bed | | Delicate et a | DOM: DOMINANT | | н | Herb |
| Total | | Bedrock: Shate and Sandstone | | PRE-EMPTI | IVE STATUS | |
| Comments: | | una Janastone | Public owne | rship | Documen | nted habitat for |
| | | | Wildlife man | nagement | state or i | federal listed |
| | | | arca Designated S | | wetland | category archaeologic |
| | | | | ected wetland | d area | atenacologie |

| TAMBECARE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: |
|--|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Wetland Juxtaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurrence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 1 25-50% urbanized 1 25-50% urbanized 1 25-50% urbanized 1 25-50% urbanized 1 25-50% urbanized 1 25-50% urbanized 1 25-50% urbanized 1 25-50% urbanized 1 25-50% urbanized 1 25-50% urbanized 1 25-50% urbanized 1 25-50% urbanized 2 25-50% urbanized 3 25-50% urbanized | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent | Number of Types |
| Frequency of Overbank Flooding: Return Interval > 5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | Soli Lacking: | Low (5-25% cover) Medium (25-50% cover) High (>50% cover) |
| pHt | Histosol: Fibric Hemic Sapric | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty | Dead Woody Material: Abrundant (>50 of westand surface) |
| Wetland Land Use: | VEGETATION VARIABLES | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradlent: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistem Aquatic Bed | >15% Scattered or Peripheral 25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 |

| Project Number: _ | Concord | | Date:13/13 | 2/04 |
|---|------------------|--|--------------------------------------|---|
| Wetland Number: . | W-20' | | | |
| | ers: Transact a | 1.00 | | |
| | | | 7 | 7 |
| USGS Quadrangle: | | Λ | | |
| Field Investigators: | William Kenny | Hssociates, LL | <u></u> | |
| | | | * | |
| | PART 1 | - CHARACTER | IZATION of WETLA | ND |
| SURFAC | CE WATER FLOW VE | ctors | PLA | NT SPECIES |
| Condition | Percent/Acrea | ge | | PEW FFW OOD COM COM COM COM COM COM COM COM COM COM |
| 1 | 100 | St. martin | * For plant species see | |
| -> <u>~</u> | 100 | Depressional | delineation class sheet | _ 00000000000000 |
| | | | | |
| # | - | Slope | | |
| V V V | | Flat | | |
| 1 | | Extensive Peatland | | . 000000000000 |
| | 100 | Order State of the | | _ 0000000000000 |
| | | | | |
| | | Lacustrine | | |
| | _ | Fringe | | |
| ~~ | | Riverine | | _ 00000000000000 |
| , 200 | - | Kiverme | | |
| | | | | |
| | VEGETATION TYPE: | 3 | | |
| Туре | Percent/Acreage | | | |
| | - | | | |
| Forested Wetland | | SOIL TYPES | | |
| Evergreen Needle-leaved | | Histosol | | |
| Deciduous | 100 | • Fibric • Hemic | | . 0000000000000 |
| Broad-leaved Needle-leaved | 100 | - Sapric | | |
| 191011111111111111111111111111111111111 | - | Mineral | - | |
| Scrub Shrub Evergreen | • | Hydric Soil | | |
| Broad-leaved | | • Gravelly | | |
| Needle-leaved Deciduous | | • Silty | | |
| Broad-leaved | | · Clayey | | |
| Needle-leaved | | | OW Obligate Wetland | COM Common OCC Occasional |
| Emergent Wetland | | GEOLOGY | FW Facultative Wetland F Facultative | C Canopy |
| Persistent | - | Surficial: TILL | FU Facultative Upland | S Sapling |
| Non-persistent | - | | OU Obligate Upland DOM Dominant | TS Tall Shrub LS Low Shrub |
| Aquatic Bed | - | | DOM DOMING | H Herb |
| Total | | Bedrock: Shele and Sandstone | PRE-EMP | TIVE STATUS |
| Comments: | | | Public ownership | Documented habitat for |
| | | | Wildlife management | state or federal listed |
| | | | Fisheries management | species Regionally scarce |
| | | | area | wetland category |
| | | | Designated State or | Historic/archaeologic |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: | | |
|--|--|---|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evenness of Distribution Actual # 7 Even Distribution S Moderately Even Distribution Highly Uneven Distribution 3 1 2 | | |
| Wetland Juxtaposition: Connected Upstram and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Sporadic Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Rested Plezometer Data; Recharge Discharge Horizental Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface; | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers % Cover 6 or > (actual #) 1. submergents: 5 2. floating: 3. most-lichen: | | |
| Watershed Land Use: >50% urbanized 25-50% urbanized 0-25% urbanized | Piez. Surface Above or at Substrate clev. Piez. Surface below Substrate clev. Not Available Evidence of Sedimentation: | 3 4. short herb; 2 5. tall herb; 1 6. dwarf shrub; 7. short shrub; | | |
| HYDROLOGIC VARIABLES | No Evidence Observed Sediment Observed on Wetland Substrate | 8. tall shrub: 9. sapling: 10. tree: | | |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: NA | Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: NA Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled Proportion of Animal Food Plants: NA | | |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | | | |
| PRETURN Interval 1-2 yrs. No Overbank Flooding PH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water | Soll Lacking: | Low (5-25% cover) Medium (25-50% cover) High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open | | |
| ficial Geologic Deposit Under Wetland Min Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | | Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) | | |
| Wetland Land Use: | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) | | |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: A | | |
| Wetland Water Regime! Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% | Dominant Wetland Type: Forested - Evergreen - Needle-Icaved Forested - Deciduous - Broad-Icaved Forested - Deciduous - Needle-Icaved Scrub Shrub - Evergreen - Broad-Icaved Scrub Shrub - Evergreen - Needle-Icaved Scrub Shrub - Deciduous - Broad-Icaved | >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: NA Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 | | |
| Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow | Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | Presence of Islands: Several to Many One or Few Absent | | |
| Ratio of Wetland Area to Watershed Area: High >10% Low <10% | | | | |

| | WETLAND IN | VENTORY D | 10/13/04 |
|----------------------|--|--------------------------------|---------------|
| vioce o Ilin | W-21. | | |
| Field Investigators: | William Kenny Associates, PART 1 - CHARACTE | | WETLAND |
| SURFAC | E WATER FLOW VECTORS | | PLANT SPECIES |
| Condition | Depressional | * For plant ; delimention d | |

| Condition | Percent/Acreag | e | | OW FIV DOOM CCOM CCOM OCC C C C C C C C C C C C |
|---------------------------|------------------|---|--|---|
| ů. | | | * For plant species see | |
| | | Depressional | delineation data sheet. | |
| 1 | | | Carried Board Steers | |
| | 50%-LOW Gra | dient | | |
| total: | 50% - HIGH | Slope | ie i i i | |
| TTT. | | Flat | | |
| A | | | | |
| 2-1-2 | | Extensive Peatland | | |
| | | | | |
| V | | | | . 00000000000000 |
| TE | | | | |
| 民 月 | | Lacustrine | | . 00000000000000 |
| | 199 | Fringe | | |
| | | | W | |
| (A)(A) | | Riverine | | |
| 1 | | | | |
| | 1.00 | | | |
| | VEGETATION TYPES | | | |
| | YEGETATION TITES | | | |
| Type | Percent/Acreage | | | |
| | | 00.35-27.775 | | |
| Forested Wetland | | SOIL TYPES | | |
| Evergreen | | Histosol | | |
| Needle-leaved | 30 | 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | | |
| Deciduous | 56 | • Fibric 🔲 • Hemic 🔲 | | |
| Broad-leaved | 20 | - Sapric | | |
| Needle-leaved | - | | | |
| Scrub Shrub | | Mineral | | |
| Evergreen | 10 | Hydric Soil • Gravelly | | |
| Broad-leaved | 15 | · Sandy | | |
| Needle-leaved | | • Silty | | |
| Deciduous Broad-leaved | 15 | · Clayey 🔲 | | |
| Needle-leaved | | | OW Obligate Wedland | COM Common |
| | | CEOL OCK | FW Facultative Wetland | OCC Occasional |
| Emergent Wetland | Y | GEOLOGY | F Facultative | C Canopy |
| Persistent | | Surficial: TILL | FU Facultative Upland | S Sapling |
| Non-persistent | | | OU Obligate Upland | TS Tall Shrub |
| Aquatic Bed | | | DOM Dominant | LS Low Shrub H Herb |
| Addition Service | | Bedrock: Shale | | |
| Total | | and Sandstone | PRE-EMP | TIVE STATUS |
| Comments: | | SALAN SERVICE SERVICES | Public ownership | Documented habitat for |
| | 1 Slope | | Wildlife management | state or federal listed |
| , | | | area | species |
| | | | Fisheries management | Regionally scarce |
| | | | area | wetland category |
| | | | Designated State or Federal protected wetla | Historic/archaeologic |
| | | | rederal protected wetta | nd area |

| LANDSCAPE VARIABLES Size: Small (<10 acres) Medium (10-100 acres) Largo (>100 acres) | Microrellef of Wetland Surface: Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types & Relative Proportions: Number of Types Evenness of Distribution Actual # Even Distribution Moderately Even Distribution Highly Uneven Distribution 3 | | |
|--|--|--|--|--|
| Wetland Juxtaposition: Connected Upstream and Downstream Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% mrbanized | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Peremial Outlet No Inlet/Peremial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/Peremial Outlet Perennial Inlet/Peremial Outlet Perennial Inlet/Peremial Outlet Nested Piezometer Data: Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate clev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (smail groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers & Cover 6 or > (actual 8) 1. submergents: 5 2. floating: 4 3. moss-lichen: 5 4. short herb: 6 dwarf strub: 7 short abrub: 8 tall strub: 9 tall strub: 1 tal | | |
| HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Sediment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | 9. sapling: (10) tree: Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled | | |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding PH: NA Acid | SOIL VARIABLES Soli Lacking: Histosol: Histosol: Hemic Supric Mineral Hydric Soil: Gravelly Sandy Silty | Proportion of Animal Food Plants: NA Low (5-25% cover) Medium (25-50% cover) High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) | | |
| Wetland Land Use: High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) Wetland Water Regime? Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow - ROADWAY Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | VEGETATION VARIABLES Vegetation Lacking: Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Broad-leaved Emergent - Persistent Aquatic Bed | Moderately Abrundant (25-50% of surface) | | |

| Project Number: | Concord | 100 | | 3/04 |
|---|------------------|---|---|---|
| Wetland Number: | W-22 7 | | | |
| | bers: Transect 2 | 12 | | |
| USGS Quadrangle | | | | |
| | : William Ker | ony Associates | LLC | |
| Field Investigators | · COMMENT TO | ing 1.0300rates | | |
| | PART | - CHARACTER | IZATION of WETLAN | vn. |
| | | - CHARACT DA | TEATION OF WEIGHT | 10 |
| SURFA | CE WATER FLOW V | ECTORS | PLA: | NT SPECIES |
| Condition | Percent/Acre | age | | S S S S S S S S S S S S S S S S S S S |
| → ← | _ | Depressional | * For plant species see delirection deta sheet | |
| ## | 100 | Slope GRADIENT Flat | | |
| $\leftarrow \downarrow \rightarrow$ | - | Extensive Peatland | | |
| | - | Lacustrine Fringe | | |
| | | Riverine | | |
| | VEGETATION TYPE | S | | |
| Туре | Percent/Acreage | SOIL TYPES | | . 8888888888888 . 88888888888888 |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved | 30 | Histosol Fibric Hemic Sapric | | |
| Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved | | Mineral Hydric Soil Gravelly Sandy Silty Clayey | | |
| Needle-leaved Emergent Wetland Persistent Non-persistent Aquatic Bed | = | GEOLOGY Surficial: TILL | OW Obligate Wetland FW Facultative Wetland F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant | COM Common OCC Occasional C Canopy S Sapling TS Tall Shrub LS Low Shrub |
| Total | = 9 | Bedrock: Shele | 100 M | H Herb |
| | - | and Sandstone | | TIVE STATUS |
| Comments: | | | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetla | Documented habitat for state or federal listed species Regionally scarce wetland category Historic/archaeologic |

arca

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: Number of Types Evenuess of Distribution |
|--|---|---|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Wetland Juxtaposition: Connected Upstram and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) | Well Developed 15.45 cm Poorly Developed <15 cm Absent | Number of Types |
| Watershed Land Use: >50% urbanized 25-50% urbanized 0-25% urbanized HYDROLOGIC VARIABLES | Piez. Surface Above or at Substrate clev. Piez. Surface below Substrate clev. Not Available Evidence of Sedimentation: No Evidence Observed | 3 4. short herb: 2 5. tall herb: 6. dwarf shrub: 7. short shrub: 8. tall shrub: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: ? Return Interval >5 yrs. Return Interval 2-5 yrs. Return Interval 2-2 yrs. No Overbank Flooding PH: NA Acid S.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till Wetland Land Use: High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) | Sediment Observed on Wetland Substrate Fluvaquent Soila Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Internitent Spring SOIL VARIABLES Soil Lacking: Histosoi: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty Clayey VEGETATION VARIABLES | Plant Species Diversity: |
| Moderate Intensity (ie. forestry) | Vegelation Lacking: Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Simuosity: N/A Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 |

| Project Number: Goncord Wetland Number: W-22 | Date: | 10/13/04 | |
|---|-------------|---------------|--|
| USGS Quadrangle: Field Investigators: William Kenny Associates | LLC | | |
| PART 1 - CHARACT | ERIZATION (| of WETLAND | |
| SURFACE WATER FLOW VECTORS | | PLANT SPECIES | |

| SURFAC | SURFACE WATER FLOW VECTORS | | PLANT SPECIES | | |
|---|----------------------------|--|--|---|--|
| Condition Condition | 90 10 | Depressional Slope Flat Extensive Peatland Lacustrine Fringe Riverine | * For plant species See definention duta sheet. | | |
| Туре | VEGETATION TYPE | ES | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Emergent Wetland Persistent Non-persistent Aquatic Bed | 50 50 50 | SOIL TYPES Histosol Fibric Hemic Sapric Mineral Hydric Soil Gravelly Sandy Clayey GEOLOGY Surficial: | OW Obligate Wetland FW Facultative Wetland F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant PRE-EMPT | COM Common OCC Occasional C Canopy S Sapling TS Tall Shrub LS Low Shrub H Herb | |
| Comments: | | and Scrastone. | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetlan | Documented habitat for state or federal listed species Regionally scarce wetland category Historic/archaeologic | |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface; | Number of Types & Relative Proportions: |
|---|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Pronounced 15-45 cm Absent 15-45 cm Inlet/Outlet Class: | Number of Types Evenness of Distribution Actual # Even Distribution 5 Moderately Even Distribution Highly Uneven Distribution 3 |
| Velland Juxtaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Ire Occurence and Frequency; Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence egional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Vatershed Land Use: > 50% urbanized 25-50% urbanized HYDROLOGIC VARIABLES Irface Water Level Fluctuation of Wetland: | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Peremial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Nested Plezometer Data: Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs: | Vegetation Density/Dominance: Sparse |
| Low Fluctuation Never Inundated Frequency of Overbank Flooding: | No Seeps or Springs Seeps Observed Perennial Spring | Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval > 5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: 10A |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | Soil Lacking: | Low (5-25% cover) Medium (25-50% cover) High (>50% cover) |
| pH: NÀ ☐ Acid <5.5 ☐ Circumneutral 5.5-7.4 ☐ Alkaline >7.4 ☐ No Water | Histosol: Fibric Hemic Sapric | Cover Distribution: Continuous Cover Small Scattered Patches 1 of More Large Patches; Parts of Site Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil; Graveily Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of weiland surface) Moderately Abrundant (25-50% of surface) |
| Wetland Land Use: | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Itow Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral |
| Wetland Water Regime? Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow CONNECT WITH Unrestricted Outflow POND | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity; Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |
| ☐ No Outlow Ratio of Wetland Area to Watershed Area: ☐ High >10% @ Low <10% | | |

| | | WEILANDIN | VENTURY DATA | 7-1 |
|--|------------------|-----------------------------|--------------------------------------|--|
| Project Number: . | Concord | £* | Date: | 10/18/04 |
| | W-25 | | Date, | |
| Wetland Number: | | e 1 | - | |
| Photo Numb | vers: Transect 2 | .5. | + | |
| USGS Quadrangle: | | | | |
| Field Investigators | William Kenny | Associates LL | | |
| Field Investigators | | | | |
| | PART 1 | - CHARACTER | IZATION of WET | LAND |
| | | | | |
| SURFA | CE WATER FLOW VE | CTORS | | PLANT SPECIES |
| Condition | Percent/Acrea | ge | | OW FFW COM COM COC C C C C C C C C C C C C C C |
| | | | Princes Pine | \$\$"598880"\\\ |
| →V← | | Depressional | 13.111.23.131.11 | |
| 1 | | 100 | | |
| ###################################### | 98 | Slope GRADIENT | - | |
| TIT | | Flat | | |
| 1 | | Personal Post | | |
| ← ;→ | - | Extensive Peatland | * For additional pla | × |
| V | | | species see delin | ewher 000000000000000000000000000000000000 |
| | | Salvar - | data sheet | |
| | - | Lacustrine Fringe | | |
| | 2 | | | |
| | | Riverine | | |
| 1 | | | - | |
| | VEGETATION TYPES | | | |
| | | | | |
| Туре | Percent/Acreage | | | |
| Forested Wetland | | SOIL TYPES | | |
| Evergreen | *** | Histosol | | |
| Needle-leaved Deciduous | - | | | |
| Broad-leaved | 100 | • Fibric • Hemic • Sapric | | |
| Needle-leaved | | | | |
| Scrub Shrub | | Mineral Hydric Soil | | |
| Evergreen Broad-leaved | 100 | • Gravelly | | |
| Needle-leaved | | • Sandy • Silty | | |
| Deciduous Broad-leaved | | - Clayey | | |
| Needle-leaved | | | OW Obligate Wetland | COM Common |
| Emergent Wetland | | GEOLOGY | FW Facultative Wetland F Facultative | OCC Occasional C Canopy |
| Persistent | | Surficial: TILL | FU Facultative Upland | S Sapling |
| Non-persistent | | 706-74 AVV | OU Obligate Upland | TS Tall Shrub |

176

Bedrock: Shale

and sandstone

Aquatic Bed

Comments:

Total

DOM Dominant

area

area

Public ownership Wildlife management

Fisheries management

Designated State or Federal protected wetland LS

H

species

PRE-EMPTIVE STATUS

Low Shrub

Herb

Documented habitat for state or federal listed

Regionally scarce wetland category Historic/archaeologic

| TAMECARE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: | | |
|--|--|---|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Commected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable | Pronounced | Number of Types Evenness of Distribution Actual # Even Distribution 3 Moderately Even Distribution 4 Highly Uneven Distribution 3 January 1 Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) | | |
| Human-csused; Sporadio Rare Event No Evidence Regional Scarcity: | Recharge Discharge Horizontal Flow Not Available | Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: | | |
| ☐ Not Scarce (>5% of total wetland area of region)☐ Scarce (<5% of total wetland area of region) Watershed Land Use: | Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate clev. Piez. Surface below Substrate clev. | 6 or > (actual #) 1. submergents: 5 2. floating: 4 3 moss-lichen: 5 4. short herb: | | |
| > 50% urbanized 25-50% urbanized 0-25% urbanized HYDROLOGIC VARIABLES | Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soils | 2 5. tall herb: 6. dwarf shrub: 7. short shrub: 8. tall shrub: 9. sapling: 5 10 tree: 90 | | |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled | | |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Proportion of Animal Food Plants: Low (5-25% cover) Medium (25-50% cover) | | |
| pH: Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits | Histosof: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty Clayey | ☐ High (>50% cover) Cover Distribution: ☐ Continuous Cover ☐ Small Scattered Patches ☐ 1 or More Large Patches; Parts of Site Open ☐ Solitary, Scattered Stems | | |
| High Permeability Stratified Deposits Glacial Till Wetland Land Use: | | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) | | |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) | VEGETATION VARIABLES Vegetation Lacking: | Interspersion of Cover and Open Water: | | |
| Wetland Water Regime? Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Sessonally Flooded, Temporarily Flooded, Saturated | Vegetation Lacking: Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: | | |
| Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outlow Unrestricted Outlow No Outland Ratio of Wetland Area to Watershed Area: High >10% Low <10% | ☐ Scrub Shrub - Evergreen - Broad-leaved ☐ Scrub Shrub - Deciduous - Broad-leaved ☐ Scrub Shrub - Deciduous - Broad-leaved ☐ Scrub Shrub - Deciduous - Needle-leaved ☐ Emergent - Persistent ☐ Emergent - Non-persistent ☐ Aquatic Bed | Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent | | |

| Project Number: _ | Concord | | Da | te:10 | 18/04 | |
|-------------------------------|--|------------------------|--------------------|---------------------------------|--|------------------|
| Wetland Number: | W-26, 2 | 4 | | | | |
| | ers: Transect. | 26.1 | | | | |
| | | | - | | | |
| USGS Quadrangle: | / | 1 1 1 | | | | |
| Field Investigators: | William Kenn | y Associates L | L(_ | | | |
| | PART 1 | - CHARACTER | IZAT | TION of WETLAN | ND | |
| SURFAC | E WATER FLOW VE | | | | ST SPECIES | |
| Condition | Percent/Acrea | ge | | | OW FEU OU COCC COM | 3.4. |
| | 1- | | - v | 1 1 - 1 - | ************************************** | STE |
| 1 | | Depressional | | - plant species | | |
| ->- | - | Depressional | | OWNE STATE | | |
| T | IAA | HIGH | _sh | ut. | | |
| to the total | 100 | Slope GRADIENT | - | | | |
| TTT | | Flat | - | | | |
| ^ | | | - | | | |
| <> | 200000 | Extensive Peatland | 1- | | | |
| | | | - | | | |
| - | | | - | _ | | |
| (1) | | Artimento II | - | | | |
| 門月 | · · | Lacustrine | - | | | |
| TE | | Fringe | - | | | |
| 200 | A | Riverine | | | | |
| | | | - | | | |
| | | | - | | | |
| | | | - | | | |
| | VEGETATION TYPES | | - | | | |
| Туре | Percent/Acreage | | - | | | |
| | | | - | | | |
| Forested Wetland | | SOIL TYPES | - | | | |
| Evergreen | | Histosol | - | | | |
| Needle-leaved | | • Fibric | - | - 1 | | |
| Deciduous Broad-leaved | 100 | • Hemic | | | | |
| Needle-leaved | 1-0 | • Sapric | _ | | | |
| 1100010-100700 | | Manual | - | | | |
| Scrub Shrub | | Mineral Hydric Soil | - | | | |
| Evergreen | | • Gravelly | | | | |
| Broad-leaved Needle-leaved | | - Sandy | - | | | |
| Deciduous | - | • Silty | - | | | |
| Broad-leaved | | · Clayey | - | | | |
| Needle-leaved | | | OW | Obligate Wetland | | mmon casional |
| Emergent Wetland | | GEOLOGY | FW | Facultative Wetland Facultative | | nopy |
| Persistent | | Surficial: TILL | FU | Facultative Upland | | pling |
| Non-persistent | | 1140 | OU | Obligate Upland | | Shrub |
| | | | DOM | Dominant | | w Shrub |
| Aquatic Bed | | Bedrock: Shale | | | H He | rb |
| Total | | and sandstone | PRE-EMPTIVE STATUS | | | |
| Comments: | | | | Public ownership | Documented | habitat fo |
| | | | | Wildlife management | state or feder | al listed |
| 1 | | | | area | species | |
| | | | - | _ Fisheries management | Regionally so | arce |
| | | | | Designated State or | wetland cate Historic/arch | |
| | | | - | Federal protected wetl: | | 2011.51 |

| LANDSCAPE VARIABLES Size: | Microrelief of Wetland Surface: Pronounced >45 cm Well Developed 15-45 cm | Number of Types & Relative Proportions: Number of Types Evenness of Distribution Actual # Even Distribution | | |
|--|---|--|--|--|
| Small (<10 scres) Medium (10-100 scres) | Poorly Developed <15 cm | 5 Moderately Even Distribution | | |
| Large (>100 series) Wetland Juxtaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Human-caused; Predictable Human-caused; Predictable Human-caused; Sporadic Rere Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized HyDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: Resum Interval 2-5 yrs. Resum Interval 2-5 yrs. Resum Interval 2-5 yrs. Resum Interval 2-7 yrs. No Overbank Flooding | Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Intermittent Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Recharge Discharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface: Piez. Surface Above or at Substrate clev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers and Percent Cover: Number of Layers and Percent Cover: Sumber of Layers and Percent Cover: Go or > (actual #) 1. submergents: S | | |
| | Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled Proportion of Animal Food Plants: | | |
| | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) Medium (25-50% cover) | | |
| pH: Acid | Histosol: Fibric Hemic Sapric | ☐ High (>50% cover) Cover Distribution: ☐ Continuous Cover ☐ Small Scattered Patches ☐ 1 or More Large Patches; Parts of Site Open ☐ Solitary, Scattered Stems Dead Woody Material: ☐ Abrundant (>50 of wetland surface) ☐ Moderately Abrundant (25-50% of surface) | | |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | | | |
| Wetland Land Use: High Intensity (ie. agriculture) | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) | | |
| Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent | | |
| Wetland Water Regime? Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | | | |
| ☐ No Outflow Ratlo of Wetland Area to Watershed Area: ☐ High >10% ■ Low <10% | | | | |

| Project Number: Loncord Wetland Number: W-27 | Date: | 10/18/04 |
|--|-------|----------|
| Photo Numbers: Transect 27.1 USGS Quadrangle: | | |
| Field Investigators: William Kenny Associates | LLC | |

PART 1 - CHARACTERIZATION of WETLAND

| SURFACE WATER FLOW VECTORS | | PLANT SPECIES | | |
|---|------------------|---|--|--|
| Condition | Percent/Acrea | Depressional Slope GRADIENT Flat Extensive Peatland Lacustrine Fringe Riverine | Wild Strawberry * For additional plant species see definention data steets. | |
| Type | VEGETATION TYPE: | S | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved | 100 | SOIL TYPES Histosol Fibric Hemic Sapric Mineral Hydric Soil Gravelly Sandy Silty Clayey GEOLOGY | OW Obligate Wetland FW Facultative Wetland F Recultative | COM Common OCC Occasional C Canony C Canony C Canony |
| Persistent Non-persistent Aquatic Bed Total | = | Surficial: TILL Bedrock: Shale | F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant | C Canopy S Sapling TS Tall Shrub LS Low Shrub H Herb |
| Comments: | | and Sandstone | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetlan | Documented habitat for state or federal listed species Regionally scarce wetland category Historic/archaeologic area |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: Number of Types Evenness of Distribution | | |
|---|--|--|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) | ☐ Well Developed 15-45 cm ☐ Poorly Developed <15 cm ☐ Absent | Actual # Even Distribution S Moderately Even Distribution Highly Uneven Distribution | | |
| Large (>100 acres) Wetland Juxtaposition: Commected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurrence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 25-50% urbanized HydroLogic Variables Surface Water Level Fluctuation of Wetland: High Fluctuation | Injet/Outlet Class: No Injet/No Outlet No Injet/Intermittent Outlet No Injet/Perennial Outlet Intermittent Injet/No Outlet Intermittent Injet/No Outlet Intermittent Injet/No Outlet Perennial Injet/No Outlet Perennial Injet/Intermittent Outlet Perennial Injet/Perennial Outlet Perennial Injet/Perennial Outlet Perennial Injet/Perennial Outlet Perennial Injet/Perennial Outlet Nested Piezometer Data: Recharge Discharge Horizonial Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed Sodiment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs | Vegetation Density/Dominance: Sparse | | |
| ☐ Never Inundated Frequency of Overbank Flooding: | Seeps Observed Perennial Spring Intermittent Spring | Medium 3-4 plots sampled High 5 or more plots sampled | | |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding PH: Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water | SOIL VARIABLES Soil Lacking: Histosol: Fibrie Hemic Sapric | Proportion of Animal Food Plants: Low (5-25% cover) Medium (25-50% cover) High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: | | |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till Wetland Land Use: | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | | | |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | | | |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded. Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent | | |

| Project Number: | Concord | | Date: 10/1 | 8/04 |
|-------------------------------|-----------------|---------------------------------|---|--|
| Wetland Number: | W-28 | 4 | | |
| | 71 | - 28. 1 | | |
| Photo Numbers | 11 41.5001 | 0 (11 | - | |
| USGS Quadrangle: _ | 1111 12 | 1 | 11.2 | |
| Field Investigators: | William Menr | y Associates | LLC | |
| | PART 1 | - CHARACTER | IZATION of WETLA | ND |
| SURFACE | WATER FLOW VI | ECTORS | PLA | NT SPECIES |
| Condition | Percent/Acres | ge | | OW FU DOU CCOM CCOM CCOM S S S S S S S S S S S S S S S S S S S |
| → ← | 100 | Depressional | * For plant species see defineation data sheet. | |
| ### ^ | = , | Slope Flat | | _ 000000000000000000000000000000000000 |
| ← → | - | Extensive Peatland | | |
| | | Lacustrine Fringe | | |
| | | Riverine | | |
| VE | GETATION TYPE | S | | |
| Туре | Percent/Acreage | | | |
| Forested Werland Evergreen | | SOIL TYPES | | |
| Needle-leaved | 15 | Histosol • Fibric | 7-1-1-1-1 | |
| Broad-leaved | 85 | Hemic Sapric | | |
| Needle-leaved _ | | Mineral | | |
| Scrub Shrub Evergreen | | Hydric Soil | | |
| Broad-leaved _ | | • Gravelly [| | |
| Needle-leaved _ Deciduous | | · Silty | | |
| Broad-leaved _ | | · Clayey | | |
| Needle-leaved | | | OW Obligate Wetland | COM Common |
| Emergent Wetland | | GEOLOGY | FW Facultative Wetland F Facultative | OCC Occasional C Canopy |
| Persistent | | Surficial: TILL | FU Facultative Upland | S Sapling |
| Non-persistent | | | OU Obligate Upland DOM Dominant | TS Tall Shrub LS Low Shrub |
| Aquatic Bed | | 1 2 3 1 5 mm 2 | DOM Dominant | H Herb |
| Total _ | | Bedrock: Shale and Sandstone | PRE-EMP | TIVE STATUS |
| Comments: Very | Rechy | and Sandstone | Public ownership Wildlife management | Documented habitat fo state or federal listed species |
| | | | Fisheries management area Designated State or | Regionally scarce wetland category Historic/archaeologic |

area
Designated State or
Federal protected wetland

arca

| LANDSCAPE VARIARIES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: |
|--|---|--|
| Size: | Pronounced | Number of Types |
| Low Fluctuation Never inundated Frequency of Overbank Flooding: | ☐ No Seeps or Springs ☐ Seeps Observed ☐ Perennial Spring ☐ Intermittent Spring | Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Proportion of Animal Food Plants: Low (5-25% cover) Medium (25-30% cover) |
| pH: Acid <5.5 Circumneural 5.5-7.4 Alkaline >7.4 No-Water | Histosol: Fibric Hemic Sapric | High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| Wetland Land Use: High Intensity (ie. agriculture) | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) |
| Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scauered or Peripheral |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow-Natural Dank | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | >75% Scattered or Peripheral 25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few |
| No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | | Absent |

| Project Number: Concord. Westand Number: W-29: | _ Date: | 10/18/04 | |
|--|-----------|-----------|--|
| Photo Numbers: Transact 29.1 USGS Quadrangle: William Kenny Associates, L | - | | |
| field Investigators: William Flenny 11550 Glores, L | - | | |
| PART 1 - CHARACTER | IZATION o | f WETLAND | |

PLANT SPECIES SURFACE WATER FLOW VECTORS Condition Percent/Acreage Depressional Slope GRADIENT Flat Extensive Peatland Lacustrine Fringe Riverine **VEGETATION TYPES** Type Percent/Acreage SOIL TYPES Forested Wetland Evergreen Histosol Needle-leaved · Fibric Deciduous · Hemic Broad-leaved · Sapric Needle-leaved Mineral Scrub Shrub Hydric Soil Evergreen · Gravelly [Broad-leaved · Sandy Needle-leaved · Silty Deciduous · Clayey Broad-leaved COM OW Common Obligate Wetland Needle-leaved OCC Occasional FW Facultative Wetland GEOLOGY Emergent Wetland C Canopy Facultative F Persistent Surficial: TILL S Sapling FU Facultative Upland Non-persistent OU Obligate Upland TS Tall Shrub LS Low Shrub DOM Dominant Aquatic Bed H Herb Bedrock: Shale Total PRE-EMPTIVE STATUS and sandstone Public ownership Documented habitat for Comments: Wildlife management state or federal listed species Fisheries management Regionally scarce area wetland category Designated State or Historic/archaeologic Federal protected wetland area

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: |
|---|--|---|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Large (>100 acres) Welland Juxiaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wellands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 0-25% urbanized 0-25% urbanized HyDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated | Pronounced | Number of Types |
| Frequency of Overbank Flooding: Return Interval > 5 yrs. | ☐ Intermittent Spring | - Proportion of Animal Food Plants: |
| Return Interval 2-5 yrs. Return Interval 1-5 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) Medium (25-30% cover) |
| pH: Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Histosol: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty Clayey | High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| Wetland Land Use: | VEGETATION VARIABLES | Low Abrundance (0-75% of surface) |
| High Intensity (ie. agriculture) Moderate Intensity (le. forestry) Low Intensity (le. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral |
| Wetland Water Regime? Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved | >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: |
| Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outlow Unrestricted Outlow No Outlow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Forested - Deciduous - Needde-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needde-leaved Scrub Shrub - Deciduous - Needde-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | Highly Convoluted (Index 1.50 or >) Moderately Convoluted (Index 1.25-1.50) Straight/Slightly Irreg. (Index) 1.10-1.25 Presence of Islands; Several to Many One or Few Absent |

| Project Number: Wetland Number: Photo Number | Concord W-30 Si Transect 30.1 | TLAND INV | Date: | 10/1· | 8104 | |
|--|-------------------------------------|----------------------------|-----------------------------------|--------------------|---|-------|
| | William Kenny Asso PART 1 - CH | IARACTERI | | THE WALLE | D T SPECIES | |
| Condition | Percent/Acreage | | | | OW FFW OU DOM COM OCC | . S.S |
| | 90 Slo | PIGH PRECIADIENT | * For plant Spe delineation of | cirs see ata sheet | . 000000000 . 00000000 . 00000000 . 00000000 | |
| | Fr | custrine inge verine | | | | |
| v | EGETATION TYPES | | | | | |
| Tuna | Property America | | | | | |

| | 5 | Lacustrine Fringe Riverine | - | | | | |
|---|-----------------|---|-----------------|--|---------|--|--|
| | VEGETATION TYPE | ES | | | | | |
| Туре | Percent/Acreage | | - | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved | 100 * | SOIL TYPES Histosol • Fibric • Hemic • Sapric Mineral Hydric Soil • Gravelly • Sandy • Silty • Clayey GEOLOGY | OW FW | Obligate Wetland Facultative Wetland | | COM OCC | Common Occasional |
| Emergent Wetland Persistent Non-persistent Aquatic Bed | = | Surficial: TILL | FU OU DOM | Facultative Facultative Upland Obligate Upland Dominant | | C S TS LS H | Canopy Sapling Tall Shrub Low Shrub Herb |
| Total | | Bedrock: Shale and Sandstone | | PRE-EMPT | TVE STA | TUS | |
| Comments: | | ance supostone | = | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetlan | | state or f species Regional wetland | |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: |
|--|---|---|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Wetland Juxtaposition: Commetted Upstram and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Sporadic Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 125-30% urbanized 0-25% urbanized HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never inundated | Pronounced | Number of Types |
| Frequency of Overbank Flooding: Return Interval > 5 yrs. | Intermittent Spring | Proportion of Animal Food Plants: |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | ☐ Low (5-25% cover) ☐ Medium (25-50% cover) ☐ High (>50% cover) |
| pH: Acid | Histosol: Fibric Hemic Sapric | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty | Dead Woody Material: Abrundant (>50 of wetland surface) |
| Wetland Land Use: | ☐ Clayey | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scauered or Peripheral |
| Wetland Water Regime: Wet Perm Flooded, Intermittently Exposed, Semiperm. Flooded Driet: Sessonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | Stream Sinussity: |
| ☐ High >10% ☐ Low <10% | | |

| Project Number: | Concord | 1.4 | Date: | 10/ | 18/04 | | |
|----------------------------|------------------|------------------------|--------------------------------|---------------------|------------------------------|----------------------|-----------------------------------|
| Wetland Number: | 1 2 21 | | | 1 | 3.3005 | | |
| | pers: Transect 3 | stel | | | | | |
| | | 7.31 | | | | | |
| USGS Quadrangle: | | . 1 | 110 | | | | |
| Field Investigators: | William Ke | inny Associates | LLC | - | | | |
| | | | to Victoria | | | | |
| | PART | I - CHARACTER | RIZATION of Y | WETLAN | ID | | |
| SURFA | CE WATER FLOW V | ECTORS | | PLAN | T SPECIES | | |
| Condition | Percent/Acre | age | | | | ZZ | 0 |
| | | | 11 | | and the second second second | 2000 | 30 8 E Z = |
| 1 | 50 | Depressional | * For plant spec | ata sheet | . 0000 | | |
| 1 | | | aglineation a | cia sicci | | | |
| dorbob | 50 | SlopeGRADIENT | | | | | |
| TTT | 20_ | Flat | | | 0000 | | |
| ^ | | | | | . 0000 | | |
| <> | | Extensive Peatland | | | . 0000 | | |
| 1 | | | - | _ | | | |
| TE | | | | | | | |
| (4) | | Lacustrine | | | 0000 | | |
| | 1 | Fringe | | | | | |
| 20 | + | Riverine | | | . 0000 | | |
| | | 1913/001 | | | | | |
| | | | | | | | |
| | VEGETATION TYPE | es | | | | | |
| Туре | Percent/Acreage | | | - 1 | | | |
| 1790 | reicenuncteage | | | _ | | | |
| Forested Wetland | | SOIL TYPES | - | | | | |
| Evergreen | 25 | Histosol | | | | | |
| Needle-leaved Deciduous | (40000000) | • Fibric 🔲 | | | | | |
| Broad-leaved | 75 | • Hemic • Sapric | | | | | 20000 |
| Needle-leaved | | | - | | | | |
| Scrub Shrub | | Mineral Hydric Soil | | | | | |
| Evergreen Broad-leaved | | • Gravelly | | | | | |
| Needle-leaved | | Sandy Silty | | | | | |
| Deciduous Broad-leaved | | · Clayey | | | | | |
| Needle-leaved | | | OW Obligate Wetl | | | COM | Common |
| Emergent Wetland | | GEOLOGY | FW Facultative W F Facultative | etland | | C | Occasional Canopy |
| Persistent | | Surficial: TILL | FU Facultative Up | pland | | S | Sapling |
| Non-persistent | | | OU Obligate Uplan | | | TS | Tall Shrub |
| Aquatic Bed | | | DOM Dominant | | | LS | Low Shrub Herb |
| Total | | Bedrock: Shake | | PRE-EMP | TIVE STAT | _ | |
| | | and Sundstone | Dut I's | | | | and better f |
| Comments: | | | Public own Wildlife m | ership anagement | | | ited habitat for ederal listed |
| | | | area | | - 1 | species | |
| | | | Fisheries m | ianagement | | Regionall wetland | y scarce |
| | | | Designated | | | | archaeologic |
| | | | | occued wetla | nd | arca | |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: |
|---|---|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorty Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evermess of Distribution Actual # Evern Distribution S Moderately Evern Distribution Highly Uneven Distribution 3 |
| Wetland Juxtaposition: Connected Upstram and Downstream Only Connected Above Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Perennial Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Flow Not Available Piez. Surface Surface Piez. Surface Above or at Substrate elev. Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: | Vegetation Density/Dominance: Sparse (0.20%) Low Density (20.40%) Medium Density (40.60%) High Density (60.80%) Very High Density (80-100%) Wey High Density (80-100%) Wegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers & Cover 6 or > (actual #) 1. submergents: 5 2. floating: 1 4 3. moss-lichen: 3 4. short herb: 1 6. dwarf shrub: 5 8. tail shrub: 9. sapling: 10 tree: Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: |
| Return Imerval 1-2 yrs. No Overbank Flooding PH: Acid | Soil Lacking: Histosol: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty Clayey VEGETATION VARIABLES Vegetation Lacking: Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Henergent - Persistent Henergent - Non-persistent Aquatic Bed | Medium (25-50% cover) High (>50% cover) High (>50% cover) |
| Ratio of Wetland Area to Watershed Area: High > 10% | | |

| WETLANE | INVENTORY DATA |
|---|--|
| Project Number: Concord Wetland Number: W-32 Photo Numbers: Transact 32.1 | Date: |
| Field Investigators: William Kenny Associal PART 1 - CHARAC | TERIZATION of WETLAND |
| SURFACE WATER FLOW VECTORS | PLANT SPECIES |
| Condition Percent/Acreage | OW PEW PEW COM |

| SURFA | CE WATER FLOW VI | ECTORS | PLA | NT SPECIES |
|---|------------------|--|--|---|
| Condition | Percent/Acrea | Depressional HIGH Slope GRADIENT Flat Extensive Peatland Lacustrine Fringe Riverine | * For plant species see delineation data sheet. | |
| Туре | VEGETATION TYPES | 3 | | - 1000000000000000000000000000000000000 |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved | 30 70 | Histosol Fibric Hemic Sapric Mineral Hydric Soil Gravelly Sandy Silty Clayey | | |
| Needle-leaved Emergent Wetland Persistent Non-persistent Aquatic Bed | | GEOLOGY Surficial: TILL | OW Obligate Wetland FW Facultative Wetland F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant | COM Common OCC Occasional C Canopy S Sapling TS Tall Shrub LS Low Shrub H Herb |
| Total | | Bedrock: Shake and Sandstone | PRE-EMPTIVE STATUS | |
| Comments: | | and Sandistone | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetlan | Documented habitat for state or federal listed species Regionally scarce wetland category Historic/archaeologic |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: Number of Types Evenness of Distribution | | | |
|---|--|--|--|--|--|
| LANDSCAPE VARIABLES | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Perennial Inlet/Perennial Outlet Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs: No Seeps of Springs Seeps Observed Perennial Spring | Number of Types | | | |
| Frequency of Overbank Flooding: Return Interval > 5 yrs. | Intermittent Spring | Proportion of Animal Food Plants: | | | |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) Medium (25-30% cover) | | | |
| pH: Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Histosol: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty Clayey | High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) | | | |
| Wetland Land Use: | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) | | | |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lackings | Interspersion of Cover and Open Water: | | | |
| Wetland Water Regime? Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved | >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinussity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent | | | |

| oject Number: Loncord | Date: | 10/19/104 | _ |
|---|-------|-----------|---|
| tland Number: 60-33 | | | |
| Photo Numbers: Transect 33.1 | | | |
| GS Auadrangle: | | | |
| d Investigators: William Kenny Associates L | LC | | |
| Id Investigators. | | | |

| SURFA | CE WATER FLOW VI | ECTORS | PLANT SPECIES | | |
|---|------------------|---|--|----------------------------------|---|
| Condition | Percent/Acrea | Depressional Slope GRADIENT Flat Extensive Peatland | * For plant species see delinentien data steet | FW FU DOW | |
| | - | Lacustrine Fringe Riverine | | | |
| * | VEGETATION TYPE: | S | | | |
| Туре | Percent/Acreage | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved | 7 <u>0</u> 30 | Histosol Fibric Hemic Sapric | | | 00000 00000 00000 00000 |
| Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved | | Mineral Hydric Soil Gravelly Sandy Silty Clayey | OW Obligate Wetland FW Facultative Wetland | | |
| Emergent Wetland Persistent Non-persistent Aquatic Bed | | Surficial: TIU | F Facultative Upland OU Obligate Upland DOM Dominant | C S TS LS | Canopy Sapling Tall Shrub Low Shrub |
| Total | | Bedrock: Shale | NDC PART | H | Herb |
| Comments: | | ard sandstone | PRE-EMP I Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wellar | state or species Regions wetland | ented habitat for federal listed ally scarce I category /archaeologic |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: |
|---|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Wetland Juxtaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence | Pronounced >45 cm Well Developed 15-45 cm Poorty Developed <15 cm Absent Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Peremial Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Inlet/Perenni | Number of Types Evenness of Distribution Acsust Even Distribution Moderately Even Distribution Highly Uneven Distribution The Highly Uneven Distribution Vegetation Density/Duminance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Number of Layers and Percent Cover: |
| Regional Scarce (>5% of total wetland area of region) Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25.50% urbanized 0-25% urbanized | Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez, Surface Above or at Substrate clev. Piez, Surface below Substrate clev. Not Available Evidence of Sedimentation: | Number of Layers % Cover 1. submergents: 1. submergents: |
| HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring | 8. tall shrub: (S) sapling: (D) tree: Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval 2-5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding PH: Acid S.5 Circumneutral 5.5-7.4 Alkaline 7.4 No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till Wetland Land Use: High Intensity (ie. agriculture) | SOIL VARIABLES Soil Lacking: Histosol: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty Clayey VEGETATION VARIABLES | Proportion of Animal Food Plants: Low (5-25% cover) Medium (25-50% cover) High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) |
| Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed. | Interspersion of Cover and Open Water: 26-75% Seattered or Peripheral >75% Seattered or Peripheral <25% Seattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |

| Project Number: | Concord | 7.3 | p | 10/1 | 9/04 | |
|----------------------------|------------------|------------------------|-------|--|-----------------------------------|--|
| Wetland Number: | 11.7/1 | | | | | |
| | | 34.1 | - | | | |
| Photo Num | bers: Transect | 5 (1) | - | 1 | | |
| USGS Quadrangle | | 1 | | | | |
| Field Investigators | : William Ker. | my Associates | ,LL | (| | |
| | | | | | | |
| | PART 1 | - CHARACTER | IZA | TION of WETLAN | D | |
| CIDE | CE WATER FLOW VI | CTOPS | | PLAN | T SPECIES | |
| | Percent/Acrea | | | THAT | | |
| Condition | PercenuAcrea | ge | | | OW FIV OU COM | S S S S S S S S S S S S S S S S S S S |
| 1 | | 2 | * For | plant species see | . 000000 | |
| → <u></u> | - | Depressional | de | inection data sheet | | |
| - 1 | 90 | H164 | - | | | |
| *** | 80 | Slope GRADIENT | - | * | | |
| * * * | | Flat | | | | |
| 1 | 4 | Extensive Peatland | | | | |
| $\leftarrow \rightarrow$ | | - Landid | | | 000000 | |
| V | | | - | | | |
| | | Lacustrine | - | | | |
| | | Fringe | - | | | |
| - | 20 | | | | | |
| , O | 0.0 | Riverine | | | | |
|) | | | - | | | |
| - | VEGETATION TYPES | | - | | | |
| Trans. | | | | | | |
| Туре | Percent/Acreage | | | | | |
| Forested Wetland | | SOIL TYPES | | - | | |
| Evergreen | 40 | Histosol | - | | | |
| Needle-leaved Deciduous | | • Fibric | - | W _a | | |
| Broad-leaved | 60 | • Hemic | | | | 200000 |
| Needle-leaved | | | | - | | |
| Scrub Shrub | | Mineral Hydric Soil | | | | |
| Evergreen Broad-leaved | | • Gravelly | - | | | |
| Needle-leaved | | • Sandy | - | | | |
| Deciduous Broad-leaved | | • Silty • Clayey | | | | |
| Needle-leaved | | | ow | Obligate Wetland | сом | Common |
| Emergent Wetland | | GEOLOGY | FW | Facultative Wetland | occ | Occasional |
| Persistent | | Surficial: TILL | FU | Facultative Upland | C S | Canopy - Sapling |
| Non-persistent | - | | OU | Obligate Upland | TS | Tall Shrub |
| Aquatic Bed | 1 | | DOM | Dominant | LS H | Low Shrub Herb |
| Total | | Bedrock: Shake | | ppe ei/na | TVE STATUS | 11010 |
| | | and Sandstone | | | | |
| Comments: | | | _ | Public ownership Wildlife management area Fisheries management area | state or species Regional wetland | nted habitat for federal listed lly scarce category |
| - | | | | Designated State or Federal protected wetlar | | archaeologic |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: Number of Types Evenness of Distribution |
|--|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Actual # Even Distribution Moderately Even Distribution Highly Uneven Distribution 3 |
| Wetland Juxtaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Nested Piezometer Data: Recharge Discharge Horizontal Flow Not Available | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: |
| Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized | Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate clev. Piez. Surface below Substrate clev. Not Available | Number of Layers |
| 0-25% urbanized HYDROLOGIC VARIABLES | Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate | 3 short shrub; 5 8. tall shrub; 9. sapling: \(\) |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval > 5 yrs. Return Interval 2.5 yrs. Return Interval 12 yrs. No Overbank Flooding PH: Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 | SOIL VARIABLES Soil Lacking: Histosol: Hemic | Proportion of Animal Food Plants: Low (5-25% cover) Medium (25-50% cover) High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches |
| No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | ☐ Sapric Mineral Hydric Soil: ☐ Gravelly ☐ Sandy ☐ Silty ☐ Clayey | 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| Wetland Land Use: High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: |
| Wetland Water Regime! Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: |
| Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% | ☐ Scrub Shrub - Evergreen - Broad-leaved ☐ Scrub Shrub - Evergreen - Needle-leaved ☐ Scrub Shrub - Deciduous - Broad-leaved ☐ Scrub Shrub - Deciduous - Needle-leaved ☐ Emergent - Persistent ☐ Emergent - Non-persistent ☐ Aquatic Bed | Highly Convoluted (index 1.30 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |

| Project Number: Wetland Number: _ Photo Numb | Conco W-35 | - 15 | | Date: | 10/19/09 | |
|--|---------------|-------|------------|-------|----------|--|
| USGS Quadrangle: | William | Kenny | Associates | LLC | | |

PART 1 - CHARACTERIZATION of WETLAND

| SURFA | CE WATER FLOW VEC | rors | PLAN | T SPECIES |
|--|-------------------|--|---|---|
| Condition | Percent/Acreage | Depressional Slope HICH Flat Extensive Peatland Lacustrine Fringe Riverine | * For plant species see delineation data sheet. | |
| | VEGETATION TYPES | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Deciduous Broad-leaved Total | <u>10</u> | SOIL TYPES Histosol Fibric Hemic Sapric Mineral Hydric Soil Gravelly Sandy Silty Clayey GEOLOGY Surficial: TIME Bedrock: Skake | OW Obligate Wetland FW Facultative Wetland F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant | COM Common OCC Occasional C Canopy S Sapling TS Tall Shrub LS Low Shrub H Herb |
| Comments: | | and Sandstone | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetla | Documented habitat for state or federal listed species Regionally scarce wetland category Historic/archaeologic |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: |
|--|--|--|
| Size: | ☐ Pronounced >45 cm ☐ Well Developed 15-45 cm ☐ Poorty Developed <15 cm ☐ Absent Inlet/Outlet Class: ☐ No Inlet/No Outlet | Number of Types Evenmess of Distribution Actual #6 Even Distribution S Moderately Even Distribution Highly Uneven Distribution 2 1 |
| Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Water shed Land Use; > 50% urbanized 25-50% urbanized 0-25% urbanized HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland; | No Inlet/Intermittent Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Outlet Intermittent Outlet Perennial Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Per | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Wery High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers % Cover Substitute Substitut |
| Ing rectuation | No Sceps or Springs Seeps Observed Perennial Spring | Low 1-2 plots sampled Medium: 3-4 plots sampled High 5 or more plots sampled |
| Return Interval > 5 yrs. | Intermittent Spring | Proportion of Animal Food Plants: |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) |
| pH: Acid | Histosal: Fibric Hemic Sapric | High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Sitty | Dead Woody Material: Abrundant (>50 of wetland surface) |
| Welland Land Use: | □ Clayey VEGETATION VARIABLES | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scauced or Peripheral |
| Wetland Water Regime; Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded □ Drier: Sessonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: ■ High Gradient >2% □ Low Gradient <2% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved | >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 |
| Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow | ☐ Emergent - Persistent ☐ Emergent - Non-persistent ☐ Aquatic Bed | Presence of Islands: Several to Many One or Few Absent |
| Ratio of Wetland Area to Watershed Area: High > 10% | | |

| Project Number: _ | Concord | | _ Dat | e: | 9 04 | |
|--|-----------------|-----------------------------|---------------|--|--|-----------------|
| Wetland Number: | W-36 | 4- | | | | |
| | pers: Transact | 3/1 | | | | |
| | | Carl | - | | | |
| USGS Quadrangle: | | 1 | | , P | | |
| Field Investigators: | : William Ke | nny Associates | 5,66 | <u>C</u> | _ | |
| | 1000 | | | 4 | | |
| | PART 1 | - CHARACTER | RIZAT | ION of WETLAN | D | |
| SURFA | CE WATER FLOW V | ECTORS | PLANT SPECIES | | | |
| Condition | Percent/Acres | ige | | | Z Z Z Z | |
| | 10 | Depressional | | plant species see | \$ <u>2 2 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 </u> | |
| 1 | | 7.120.75.11.1 | Decin | to the state of th | | |
| ###################################### | 90 | Slope GRADIENT | | | | |
| TTT | | Flat | - | | | |
| 1 | | Extensive Peatland | | | | |
| | - | , a valuable | - | | | |
| TEN. | | | | | | |
| £(); | | Lacustrine | | | | |
| A. | | Fringe | - | | | |
| 000 | 7 | Riverine | 1 | | | |
| | | | | | | |
| | VEGETATION TYPE | c | - | A | | |
| Туре | Percent/Acreage | | | | | |
| Type | FercenuAcreage | | _ | | | |
| Forested Wetland | | SOIL TYPES | | | | |
| Evergreen Needle-leaved | 90 | Histosol | | | | |
| Deciduous Broad-leaved | 10 | • Fibric • Hemic • Sapric | - | | | |
| Needle-leaved | | • Sapric | - | | | |
| Scrub Shrub | | Mineral | | | 00000000 | |
| Evergreen | • | Hydric Soil • Gravelly | | | | |
| Broad-leaved Needle-leaved | | - Sandy | - | | | |
| Deciduous | | • Silty • Clayey | - | | | |
| Broad-leaved Needle-leaved | - | | ow | Obligate Wetland | | ommon |
| | | GEOLOGY | FW | Facultative Wetland | 70000 | ecasional |
| Emergent Wetland Persistent | | Surficial: TILL | | Facultative Facultative Upland | | anopy apling |
| Non-persistent | | 300000 1000 | ou | Obligate Upland | TS T | all Shrub |
| Aquatic Bed | | | DOM | Dominant | | ow Shrub erb |
| [otal | | Bedrock: Shale | | PRE-EMPT | TVE STATUS | - |
| Comments: | | and Sendstone | 1 | Public ownership | Documented | habitat for |
| | | | | Wildlife management | state or fede | |
| - | | | | area Fisheries management | species Regionally s | carce |
| | | | | area | wetland cate | egory |
| | | | - | Designated State or Federal protected wetlar | Historic/arc | hacologic |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: |
|---|---|---|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Wetland Juxtaposition: | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evenness of Distribution Actual # Even Distribution Moderately Even Distribution Highly Uneven Distribution 1 3 2 1 |
| Connected Upgream and Downstream MAN-MARC Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: | No Inter/Intermittens Outlet No Inter/Perennial Outlet Intermittens Inter/No Outlet Intermittens Inter/Intermittens Outlet Intermittens Outlet/Intermittens Outlet Intermittens Outlet/Perennial Outlet Perennial Inter/No Outlet | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) |
| Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: | Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Nested Piezometer Data: Recharge Discharge Horizontal Flow Not Available | Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: |
| ☐ Not Scarce (>5% of total wetland area of region) ☐ Scarce (<5% of total wetland area of region) Watershed Land Use: ☐ > 50% urbanized ☐ 25-50% urbanized ☐ 0-25% urbanized ☐ 0-25% urbanized ☐ 0-25% urbanized ☐ 0-25% urbanized | Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: | Number of Layers |
| HYDROLOGIC VARIABLES | No Evidence Observed Sediment Observed on Wetland Substrate | 8. tall shrub: (9.) sapling: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Fluvaquent Soila Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: |
| Return Interval 1-2 yrs. No Overbank Flooding pH: | Soil Lacking: | Low (5-25% cover) Medium (25-30% cover) High (>50% cover) Cover Distribution: |
| ☐ Acid <5.5 ☐ Circumneutral 5.5-7.4 ☐ Aikaline >7.4 ☐ No Water | Fibric Hemic Supric | Continuous Cover Small Scattered Patches 1 or More Large Patches; Paris of Site Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | ☐ Solitary, Scattered Stems Dead Woody Material: ☐ Abrundant (>50 of wetland surface) |
| Wetland Land Use: High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Samrated | Dominant Welland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: |
| Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outlow Unrestricted Outflow No Outflow | ☐ Scrub Shrub - Evergreen - Broad-leaved ☐ Scrub Shrub - Evergreen - Needle-leaved ☐ Scrub Shrub - Deciduous - Broad-leaved ☐ Scrub Shrub - Deciduous - Needle-leaved ☐ Emergent - Persistent ☐ Emergent - Non-persistent ☐ Aquatic Bed | Highly Convoluted (Index 1.50 or >) Moderately Convoluted (Index 1.25-1.50) Straight/Slightly Irreg. (Index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |
| Ratio of Wetland Area to Watershed Area: High >10% Low <10% | | |

| Project Number: Concord | Date: | 10/20/04 | |
|---|----------|----------|--|
| Photo Numbers: Transcot 37.1 | | | |
| USGS Quadrangle: William Kenny Associates LLC | <u> </u> | | |

PART 1 - CHARACTERIZATION of WETLAND

| SURFA | CE WATER FLOW VE | CTORS | PLANT SPECIES | | |
|---|------------------|---|--|---|--|
| Condition | Percent/Acrea | Depressional Slope 62ADIE OF Flat Extensive Peatland Lacustrine Fringe Riverine | High Bush Bluebarry # For additional plant species see delineation data sheet. | | |
| | vegetation types | 5 | | | |
| Туре | Percent/Acreage | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved | 30 50 | Histosol Fibric Hemic Sapric Mineral Hydric Soil Gravelly Sandy Silty Clayey | OW Obligate Wetland | COM Common | |
| Emergent Wetland Persistent Non-persistent Aquatic Bed | | GEOLOGY Surficial: TILL | FW Facultative Wetland F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant | OCC Occasional C Canopy S Sapling TS Tall Shrub LS Low Shrub H Herb | |
| l'otal | | Bedrock: Shale and Sandstone | PRE-EMPT | TVE STATUS | |
| Comments: | | Niver accessions | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetlan | Documented habitat fo state or federal listed species Regionally scarce wetland category Historic/archaeologic area | |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: Pronounced >45 cm | Number of Types & Relative Proportions: Number of Types Evenness of Distribution |
|---|--|---|
| Small (<10 acres) Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | ☐ Well Developed 15-45 cm ☐ Poorly Developed <15 cm ☐ Absent | Actual # Even Distribution 3 Moderately Even Distribution 4 Highly Uneven Distribution 3 |
| Wetland Juxtaposition: Connected Upstram and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurrence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: COUF CORRISE > 50% urbanized 25-50% urbanized D-25% urbanized HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never inundated | Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Peremial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Recharge Intermittent Outlet Perennial Inlet/Perennial Outlet Nested Piezometer Data: Recharge Indet/Perennial Outlet Nested Piezometer Data: Recharge Indet/Perennial Outlet Relationship of Wellands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate Elevation to Regional Piezometric Surface: Piez. Surface below Substrate elev. Rot Aysilable Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs: No Sceps or Springs Seeps Observed Perennial Spring | |
| Frequency of Overbank Flooding: Return Interval > 5 yrs. | ☐ Intermittent Spring | Proportion of Animal Food Plants: NA |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) Medium (25-50% cover) |
| pH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No-Water | Histosol: LEAF LITTER ONLY Fibric Hemic Sapric | ☐ High (>50% cover) Cover Distribution: ☐ Continuous Cover ☐ Small Scattered Patches ☐ 1 or More Large Patches; Pans of Site Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| Wetland Land Use: High Intensity (ie. agriculture) | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) |
| Moderate Intensity (ie. forestry) GOLF Low Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scauered or Peripheral |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved | >75% Scattered or Peripheral 25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) |
| High Gradient >2% Low Gradient <2% | Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved | Presence of Islands: |
| Degree of Outlet Restriction: Restricted Outlow Utrestricted Outlow No Outlow | Emergent - Persistent Emergent - Non-persistent Aquatic Bed | Several to Many One or Few Absent |
| Ratio of Wetland Area to Watershed Area: High >10% Low <10% | | |

| roject Number: Concord | Date: | 10/20/04 |
|--|-------|----------|
| Vetland Number: W-38 | | |
| Aerial Photo Numbers: Transact 38.1 | | |
| CCC Quadrangles | | |
| ield Investigators: William Henry Associates LLC | | |

| SURFA | CE WATER FLOW VE | CTORS | PLAN | T SPECIES |
|---|------------------|--|--|--|
| Condition | <u>30</u> | Depressional Slope GRADIENT Flat Extensive Peatland Lacustrine Fringe Riverine | Bed Maple *For additional plant species see delineation data steet | |
| | VEGETATION TYPES | | | |
| Туре | Percent/Acreage | *** and and a | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Deciduous Eroad-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Acceptate Wetland Persistent Non-persistent Aquatic Bed | 95 5 | Histosol Fibric Hemic Sapric Mineral Hydric Soil Gravelly Sandy Clayey GEOLOGY Surficial: | OW Obligate Wetland FW Facultative Wetland F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant | COM Common OCC Occasional C Canopy S Sapling TS Tall Shrub LS Low Shrub H Herb |
| Total | | Bedrock: Shale and Sandstone | PRE-EMPT | IVE STATUS |
| Comments: | | are senastory | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetlan | Documented habitat for state or federal listed species Regionally scarce wetland category Historic/archaeolegic area |

| ☐ Pronounced >45 cm ☐ Well Developed 15-45 cm ☐ Poorly Developed <15 cm | Number of Types Evenness of Distribution Actual # Even Distribution Moderately Even Distribution |
|--|--|
| MI Absent | Moderately Even Distribution Highly Uneven Distribution |
| Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Inle | Vegetation Density/Dominance: Sparse (0-20%) Cow Density (20-40%) Medium Density (40-50%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers % Cover 6 or > (actual #) 1. submergents: S 2. Roating: 4 3 moss-lichen: 2. 1. short herb: 2 5. tail herb: 1 6. dwarf shrub: 7. short shrub: 8. tail shrub: 9 sapling: 9 1. 1. 1. 1. 1. 1. 1. |
| Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| SOIL VARIABLES Soil Lacking: | Proportion of Animal Food Plants: Low (5-25% cover) Medium (25-50% cover) |
| Histosol: Fibric Hemic Sapric | ☐ High (>50% cover) Cover Distribution: Continuous Cover ☐ Small Scattered Patches ☐ 1 or More Large Patches; Parts of Site Open |
| Mineral Hydric Soil: Gravelly Sandy Silty Clavey | ☐ Solitary, Scattered Stems Dead Woody Material: ☐ Abrundant (>50 of wetland surface) ☐ Moderately Abrundant (25-50% of surface) |
| VEGETATION VARIABLES Vegetation Lacking: | Interspersion of Cover and Open Water: |
| Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (Index 1.50 or >) Moderately Convoluted (Index 1.25-1.50) Straight/Slightly Irreg. (Index) 1.10-1.25 |
| | No Inlet/No Outlet No Indet/Intermittent Outlet No Indet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Nested Piezometer Data: Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate clev. Piez. Surface below Substrate clev. Not Available Evidence of Seedimentation: No Evidence Observed Sodiment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps on Springs: No Seeps or Springs Soeps Observed Perennial Spring Intermittent Spring Intermittent Spring Intermittent Spring SOIL VARIABLES Soil Lacking: Histosolt Gravelly Sandy Silty Clayey VEGETATION VARIABLES Vegetation Lacking: Dominant Wetland Type: Porested - Deciduous - Broad-leaved Forested - Deciduous - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Perristent Emer |

| Project Number: | Concord | , s.÷ | _ D | ate: 16/2 | 0/04 |
|-------------------------------|-----------------|--------------------|----------|---------------------------------------|--|
| Wetland Number: | 1 . 70 3 | | 9.7 | | |
| | bers: Transect | 39.1 | 7 | | |
| | | 0.11 | - | | |
| USGS Quadrangle | | 1 . 1 | 111 | | |
| Field Investigators | : William Ker | my Associates | LLC | | |
| | | | | | |
| | PART 1 | - CHARACTER | IZA' | TION of WETLAN | D |
| SURFA | CE WATER FLOW V | ECTORS | | PLAN | T SPECIES |
| Condition | Percent/Acres | | | | |
| Condition | | -8- | 1 | 0 - | OW OUR |
| 1 | | Depressional | | rady term | |
| → | - | Depressional | - | | |
| to do do | 100 | HIGH | | 4 | |
| | 100 | Slope GRADIENT | | | |
| ٨ | | Mat | | | |
| e> | | Extensive Peatland | | -additional plant | |
| 1 | - | | | cres see delineation. ta sheet. | |
| 100 | | | _aa | ta spect. | |
| (A) | | Lacustrine | | | |
| | | Fringe | | | |
| 00 | | Riverine | - | | |
| | - | 14, 3,445 | - | | |
| | | | | | |
| | VEGETATION TYPE | S | | | |
| Туре | Percent/Acreage | | - | | |
| | | | = | | |
| Forested Wetland | | SOIL TYPES | | | |
| Evergreen Needle-leaved | 10 | Histosol | 1 | | |
| Deciduous | | • Fibric • Hemic | | * | |
| Broad-leaved Needle-leaved | 85 | Hemic Sapric | | | |
| A STATE OF THE STATE OF | | Mineral | - | | |
| Scrub Shrub Evergreen | • | Hydric Soil | | | |
| Broad-leaved | | • Gravelly [| | | |
| Needle-leaved Deciduous | | • Silty | | | |
| Broad-leaved | 5_ | · Clayey | tue. | ECA CLUS I | |
| Needle-leaved | | | OW FW | Obligate Wetland Facultative Wetland | COM Common OCC Occasional |
| Emergent Wetland | | GEOLOGY | F | Facultative | C Canopy |
| Persistent Non-persistent | | Surficial: TILL | FU | Facultative Upland Obligate Upland | S Sapling TS Tall Shrub |
| | | | DOM | | LS Low Shrub |
| Aquatic Bed | _ | Bedrock: Shale | | Calle of the second | H Herb |
| l'otal | | and Sandstone | | PRE-EMPT | TVE STATUS |
| Comments: | | | | _ Public ownership | Documented habitat for |
| | | | - | Wildlife management | state or federal listed species |
| | | | 1 | Fisheries management | Regionally scarce |
| | | - | | area Designated State or | wetland category |
| | | | - | Federal protected wetlar | Historic/archaeologic |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: |
|---|---|---|
| Size: Smalt (<10 acres) Medium (10-100 acres) Large (>100 acres) Wetland Juxtaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Sporadic Frequency Natural; Sporadic Frequency Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized HYDROLOGIC VARIABLES | Pronounced 345 cm Well Developed 15-45 cm Poorty Developed <15 cm Absent Iniet/Outlet Class: No Iniet/Intermittent Outlet No Iniet/Peremial Outlet Intermittent Iniet/No Outlet Intermittent Iniet/No Outlet Intermittent Iniet/Intermittent Outlet Intermittent Iniet/No Outlet Intermittent Iniet/Intermittent Outlet Perennial Iniet/Intermittent Outlet Perennial Iniet/Intermittent Outlet Perennial Iniet/Perennial Outlet Restarge Discharge Horizontal Flow Not Available Relationship of Wellands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate | Number of Types |
| Surface Water Level Fluctuation of Wetland; High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: Return Interval > 5 yrs. | Fluvaquent Soils Evidence of Sceps and Springs: No Sceps or Springs OLD WEUS Sceps Observed Perennial Spring OVERFLOWING Intermittent Spring | (16) tree: Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled Proportion of Animal Food Plants: DA |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) Medium (25-50% cover) |
| pH: NA Acid | Histosol: Fibric Hemic Sapric | Cover Distribution: Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Giacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| Wetland Land Use: High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | Interspersion of Cover and Open Water: |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Reedle-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-15% Scattered or Peripheral >15% Scattered or Peripheral <15% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |

| Project Number: | Concord W-40 | | _ Dat | 10/20 | 0/04 | | |
|---|-------------------|---|--------|--|-------------------------|--|--|
| Wetland Number: Photo Num USGS Quadrangle | bers: Transact 40 | 2.1 | - | | | | |
| Field Investigators | | | | ION of WETLAN | D | | |
| SURFACE WATER FLOW VECTORS | | | | PLAN | r species | | |
| Condition | Percent/Acreage | | _5tr | awberry-Bush, Amer | 0000 **** 5 | 2000 0000 0000 | 300000 |
| 計 | 10 | Depressional Low Slope GRADIENT Flat | | | | | 300000 300000 300000 |
| $\stackrel{\uparrow}{\longleftrightarrow}$ | | Extensive Peatland | Specie | additional plant es see delineation sheet | | | 300000 30000 300000 |
| | - | Lacustrine Fringe Riverine | | | | | 300000 300000 300000 |
| | VEGETATION TYPES | | | | | 300C 300C 300C | 100000 100000 100000 |
| Туре | Percent/Acreage | | | | | | ومومود |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved | 90 5 | Histosol Fibric Hemic Sapric | | | 00001 00001 00001 | | 100000 100000 100000 100000 |
| Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved | <u>5</u> | Mineral Hydric Soil Gravelly Sandy Silty Clayey | | | | | 100000 100000 100000 100000 |
| Needle-leaved Emergent Wetland Persistent | | GEOLOGY Surficial: TILL | FW I | Obligate Wetland Facultative Wetland Facultative Facultative Upland | | COM OCC C S | Common Occasional Canopy Sapling |
| Non-persistent | _ | Bedrock: Shale | ou c | Obligate Upland Dominant | | TS LS H | Tall Shrub Low Shrub Herb |
| otal | _ | and Sandstone | | PRE-EMPT | IVE STAT | US | |
| Comments: | * | | = | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetlan | | state or for species Regionall wetland of | nted habitat for ederal listed ly scarce category archaeologic |

| Microrellef of Wetland Surface: | Number of Types & Relative Proportions: |
|---|---|
| Pronounced | Number of Types |
| No Evidence Observed ☐ Sediment Observed on Wetland Substrate | 8. tall shrub; 9. sapling: |
| Fluvaquent Soila Evidence of Seeps and Springs: No Sceps or Springs Sceps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled Proportion of Animal Food Plants: NA |
| SOIL VARIABLES | Low (5-25% cover) |
| Soil Lacking: Histosol: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy LATTLE Silty Clayey | Medium (25-50% cover) High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches; 1 or More Large Patches; Paris of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| | Low Abrundance (0-25% of surface) |
| Vegetation Lacking: Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: NA Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.75-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |
| | Pronounced 345 cm Well Developed 15.45 cm Poorly Developed 15.45 cm 15.45 |

| Project Number: Wetland Number: _ Aerial Photo Number | Concord .W-41 s: Transact | WETLAND INV | ENTORY DA | 10/20/04 |
|---|---------------------------------|--|----------------------------------|---|
| USGS Quadrangle: _ Field Investigators: _ SURFACI | | nny Associates 1 - CHARACTER | IZATION of \ | WETLAND PLANT SPECIES |
| Condition | Percent/Acr | | | |
| → ↓ ↓ ↓ ↓ ↓ | 50 | Depressional HIGH - Slope CRADIENT Flat Extensive Peatland | # For plant spe delineation o | 610 See 000000000000000000000000000000000 |
| | | Lacustrine Fringe Riverine | | |
| | EGETATION TYP | FO | | |

| | VEGETATION TYPE | S | | | | | |
|--|---------------------------------------|--|----------------------|--|---------|--|---|
| Type | Percent/Acreage | | - | • | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved | 5 90 | Histosol Fibric Hemic Sapric Mineral Hydric Soil Gravelly | | | | 19000 19000 19000 19000 19000 | |
| Needle-leaved Deciduous Broad-leaved Needle-leaved Emergent Wetland | _5_ | • Sandy • Silty • Clayey | OW FW | Obligate Wetland Facultative Wetland | | COM | Common Occasional |
| Persistent Non-persistent Aquatic Bed | = | Surficial: TILL | F FU OU DOM | Facultative Facultative Upland Obligate Upland Dominant | | C S TS LS H | Canopy Sapling Tall Shrub Low Shrub Herb |
| Total | Total Bedro | | - = | PRE-EMPT | IVE STA | TUS | |
| | d depressional we (Man-Made) burms | etland | | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetlan | | state or f species Regional wetland | nted habitat for jederal listed ly scarce category archaeologic |

area
Designated State or
Federal protected wetland

arca

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: |
|---|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evenness of Distribution Actual # Even Distribution Moderately Even Distribution Highly Uneven Distribution 3 2 |
| Wetland Juxtaposition: Connected Upstram and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Human-caused; Predictable Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized HYDROLOGIC VARIABLES | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Recharge Discharge Horizontal Flow Not Available Relationably of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers & Cover 6 or > (actual #) 1. submergents: 5 2. floating: 3 4 3. moss-lichen: 3 4. short herb; 1 5. tall herb: 1 6. dwarf shrub: 7. short shrub: 8. tall shrub: 9. sapiling: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: Return Interval > 5 yrs. | Fluvaquent Soils Evidence of Sceps and Springs: No Sceps or Springs Sceps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled Proportion of Animal Food Plants: NA |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) Medium (25-50% cover) |
| pH: NA Acid <5.5 Circumneural 5.5-7.4 Alksline >7.4 No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits | Histosol: Fibric Hemic Sapric Mineral Hydric Soil: | High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems |
| High Permeability Stratified Deposits Glacial Till | 翻 Sandy 图 Silty 口 Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| Wetland Land Use: High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: 26-75% Scauered or Peripheral |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded. Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outlow Unrestricted Outlow No Coutlow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | >715% Scattered or Peripheral 225% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: NA Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: NA Several to Many One or Few Absent |

| Project Number: | Concord | 177 | Date: | 10/3 | 10/04 | |
|--|---|--|---|-------------------------------------|---------------------------------------|--|
| Wetland Number | -1 1110 | | | | | |
| The state of the s | nbers: Transect 4 | 2,1 | | | | |
| | | | | | | |
| USGS Quadrangl | (1) // Kan | ary Association | 110 | | | |
| Field Investigator | s: William Ken | MY MISSOCIALIES | ill | | | |
| | * 27223 | | | | | |
| | PART 1 | - CHARACTER | IZATION of | WETLAN | D . | |
| SURF | ACE WATER FLOW VE | ectors | | PLAN | T SPECIES | |
| Condition | Percent/Acrea | ge | | | PW FFW FFU OU DOM | CCOM CCC C C C C S S S S S S S S S S S S S |
| → ↓ ← | 100 | Depressional HIGH Slope GRADIENT Flat | * For plant spe delineation si | kies see | | |
| | | Extensive Peatland | | - | | 0000000 0000000 00000000 |
| | - | Lacustrine Fringe Riverine | | | 000000 | |
| | | | | | | |
| | VEGETATION TYPE | s | | | | |
| Type | Percent/Acreage | | | | | |
| Forested Wetland | | SOIL TYPES | | | 00000 | 000000 |
| Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved | 10 | Histosol Fibric Hemic Sapric | | | | |
| Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved | | Hydric Soil Gravelly Sandy Silty Clayey | | | | OM Common |
| Needle-leaved Emergent Wetland Persistent Non-persistent | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | GEOLOGY Surficial: TILL | OW Obligate West FW Facultative W F Facultative FU Facultative U OU Obligate Upla | etland pland | O S T | CC Occasional Canopy Sapling S Tall Shrub |
| Aquatic Bed | | | DOM Dominant | | L H | |
| Total | | Bedrock: Shale | | PRE-EMP | TIVE STATUS | |
| Comments: | | and Sandstone | area Fisheries n area Designates | nership nanagement nanagement | Docu state spec Regi wetl | onally scarce and category oric/archaeologic |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: |
|---|---|---|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Wetland Juxtaposition: Connected Upstream and Downstream Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Predictable Rare Event No Evidence Regional Scarcity: Not Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: | Pronounced | Number of Types |
| High Fluctuation Low Fluctuation Never Inundated | Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed | Plant Species Diversity: □ Low 1-2 plots sampled ■ Medium 3-4 plots sampled □ High 5 or more plots sampled |
| Frequency of Overbank Flooding: | Perennial Spring Intermittent Spring | ☐ High 5 or more plots sampled Proportion of Animal Food Plants: NA |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) Medium (25-50% cover) |
| pH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water | Histosol: Fibric Hemic Sapric Mineral Hydric Soil: | ☐ High (>50% cover) Cover Distribution: ☐ Continuous Cover ☐ Small Scattered Patches ☐ 1 or More Large Patches; Parts of Site Open ☐ Solitary, Scattered Stems |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Gravelly Sandy LITLE Sitty | Dead Woody Material: Abrundant (>50 of wetland surface) |
| Wetland Land Use: | Clayey VEGETATION VARIABLES | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded. Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: NA Highly Convoluted (Index 1.50 or >) Moderately Convoluted (Index 1.25-1.50) Straight/Slightly Irreg. (Index) 1.10-1.25 Presence of Islands: NA Several to Many One or Few Absent |
| ☐ High >10% | | |

| Project Number: | Concord | | Date: | 10/20 | 3/04 | |
|--|-----------------|--------------------------------|---|-----------------------------------|-----------------------------------|---------------------------------------|
| Wetland Number: _ | .W-43 | 70 | | | | |
| Photo Number | rs: Transport | 43.1 | | | | |
| USGS Quadrangles . | | | | | | |
| | William Kenn | W. Associates LL | 6 | | | |
| Field Investigators: | William Library | 1.0,0,0,0 | | | | |
| | PART 1 | - CHARACTER | IZATION of V | VETLAN | D | |
| SURFACE | E WATER FLOW V | ECTORS | | PLAN | T SPECIES | |
| Condition | Percent/Acre | age | | | ow Fw Fu Ou Ou COM | S 28 |
| → / ← | 90 | Depressional | * For plant spec delineation do | | 0000000 00000000 | |
| ### | - | Slope Flat | | | | |
| ← ↑→ | | Extensive Peatland | | | | |
| | | Lacustrine | | | | |
| O | 10 | Fringe Riverine | 1 | | | 300000 300000 |
|) | | | | _ | | |
| v | EGETATION TYPE | S | | | | |
| Туре | Percent/Acreage | | | | | |
| Forested Wetland | | SOIL TYPES | | | | |
| Evergreen Needle-leaved | 40 | Histosol • Fibric | | | | |
| Deciduous Broad-leaved Needle-leaved | 60 | • Fibric • Hemic • Sapric | | | | 200000 200000 |
| Scrub Shrub Evergreen | | Mineral Hydric Soil • Gravelly | | | | |
| Broad-leaved Needle-leaved Deciduous Broad-leaved | | • Sandy • Silty □ • Clayey □ | | | 00000000 00000000 | 100000 100000 |
| Needle-leaved Emergent Wetland | | GEOLOGY | OW Obligate Wetls FW Facultative We F Facultative | etland | OCC C | Occasional Canopy |
| Persistent Non-persistent | | Surficial: Allovial | FU Facultative Up OU Obligate Uplan | | S TS | Sapling Tall Shrub |
| Aquatic Bed | | Bedrock: Shale | DOM Dominant | | LS H | Low Shrub Herb |
| Foral and Sandstone | | PRE-EMPTIVE STATUS | | | | |
| Comments: | rzanie later | | Public own Wildlife ma | | | nted habitat for federal listed |
| - | | | Fisheries marea Designated | anagement State or otected wetlan | Regional wetland Historic/ | ly scarce category archaeologic |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: |
|--|---|--|
| Size: Small (<10 acres) Medium (10-100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent | Number of Types Evenness of Distribution Actual # Even Distribution Moderately Even Distribution Highly Uneven Distribution |
| Metiand Juxtaposition: | Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Intermittens Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: | Highly Uneven Distribution 3 |
| Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized | Piez. Surface Above or at Substrate clev. Piez. Surface below Substrate clev. Not Available Evidence of Sedimentation: | 4 3 moss-lichen: 3 4 short herb; 2 3 stall herb; 1 6 dwarf shrub; 7 short shrub; |
| HYDROLOGIC VARIABLES | Sediment Observed on Wetland Substrate | 8. tall shrub; (9.) sapling: (10) tree: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Fluvaquent Soils Evidence of Seeps and Springs: Mo Seeps or Springs Seeps Observed Perennial Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding pH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water | SOIL VARIABLES Soil Lacking: Histosol: Hemic Sapric | Proportion of Animal Food Plants; NA Low (5-25% cover) Medium (25-30% cover) High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches; Parts of Site Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Sity | Dead Woody Material: Abrundant (>50 of wetland surface) |
| Wetland Land Use: High Intensity (i.e. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Sessonally Flooded, Temporarily Flooded. Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow MAN-MAD € DRAIW Unrestricted Outflow | Dominant Wetland Type: Forested - Evergreen - Needle-leaved | 25-75% Scattered or Peripheral >75% Scattered or Peripheral >75% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many Sm. One or Few |
| ☐ No Outflow Ratio of Wetland Area to Watershed Area: ☐ High >10% | | Absent |

| Project Number: | W-44 | | - | ite: | | |
|-------------------------------|-------------------|------------------------|---------------|---|---|---|
| Matigud Lanumer | | | | | | |
| | rs: Transcet 1 | 74.1 | 7 | | | |
| 4 | rs: Triorisce. | 1 11/1 | - | | | |
| USGS Quadrangle: . | 1111 16 | 1 | 111 | | | - |
| Field Investigators: _ | William Met | my Associates | LLC | - | | |
| | The second second | | | | | |
| | PART | 1 - CHARACTER | IZA | TION of WETLAN | ID | |
| SURFAC | E WATER FLOW V | ECTORS | PLANT SPECIES | | | |
| Condition | Percent/Acre | age | | | ** 7700 | 8 |
| → ← | 90 | Depressional | * For | -plant species sie mation plata sheet | | |
| *** | - | Slope Flat | | 1 | | |
| ←^^ | | Extensive Peatland | = | 1 | | |
| TE . | | | | | | |
| | - | Lacustrine Fringe | | | | |
| (A) | 10 | Riverine | | | |)====== -============================== |
|) | | | | | | |
| v | EGETATION TYPE | ES | | | | |
| Туре | Percent/Acreage | | = | | | 000000 000000 |
| Forested Wetland | | SOIL TYPES | | | | |
| Evergreen | 20 | Histosol | - | | | |
| Needle-leaved Deciduous | | • Fibric 🔲 | | | 000000 | 000000 |
| Broad-leaved | 70 | • Hemic R | | | | |
| Needle-leaved | | | _ | | | |
| Scrub Shrub | | Mineral | - | | | |
| Evergreen | 8 | Hydric Soil • Gravelly | - | | | |
| Broad-leaved Needle-leaved | | • Sandy | - | | | |
| Deciduous | 2 | · Silty | - | | | |
| Broad-leaved | 2 | · Clayey | - | | | 00000 |
| Needle-leaved | | | ow | Obligate Wetland | CON | |
| Emergent Wetland | | GEOLOGY | FW | Facultative Wetland Facultative | C | Canopy · |
| Persistent | | Surficial: TILL | FU | Facultative Upland | s | Sapling |
| Non-persistent | | 2000 | ou | Obligate Upland | TS | Tall Shrub |
| Aquatic Bed | | | DOM | Dominant | LS H | Low Shrub Herb |
| Total | | Bedrock: Shele | | PRE-EMPT | TIVE STATUS | |
| Comments: | | and Sandstone | | Public ownership | | ented habitat for |
|) | | | | Wildlife management area Fisheries management area Designated State or Federal protected wetlar | state or species Regions wetland Historia | federal listed |

| TANDOCADO MARIANTES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: |
|---|--|---|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Camected Upuream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Sporadic Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated | Pronounced | Number of Types & Relative Proportions: Number of Types Evenness of Distribution |
| Frequency of Overbank Flooding: Return Interval > 5 yrs. | Intermittent Spring | |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Proportion of Animal Food Plants: Low (5-25% cover) Medium (25-50% cover) |
| pH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland | Histosol: Fibric Hemic Supric Mineral Hydric Soil: | High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems |
| Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Gravelly Sandy Silty | Dead Woody Material: Abrundant (>50 of wetland surface) |
| Wetland Land Use: | VEGETATION VARIABLES | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Sessonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: | Dominant Wetland Type: Forested - Evergreen - Needle-leaved | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.30 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: |
| Restricted Outflow Unrestricted Outflow No Outflow | ☐ Emergent - Non-persistent ☐ Aquatic Bed | Several to Many One or Few Absent |
| Ratio of Wetland Area to Watershed Area: High >10% Low <10% | | |

| Wetland Number: _ | W-45 Transed | 45.1 | - | | | |
|---|-----------------|---|-----------------|---|--|------------|
| USGS Quadrangle: | rs: | 13.1 | - | | × | |
| | William Ke | nny Associates | LL | C | | |
| Fleid Investigators: | COTTI-VIA 110 | 7113001000 | | | | |
| | PART | - CHARACTER | RIZA | TION of WETLAN | ND | |
| SURFAC | E WATER FLOW V | ECTORS - | PLANT SPECIES | | | |
| Condition | Percent/Acre | age | | | Z Z Z U | 6 |
| → ← | 30 | Depressional | | r plant species see lineation data shoot | | |
| # ## | <u>40</u> | Slope GRADIENT Flat Extensive Peatland | | * | _ 000000000 0000000000 0000000000 | |
| | | Lacustrine | | | | |
| | 30 | Fringe Riverine | = | | | |
| v | EGETATION TYPE | S | | | . 00000000000 | |
| Туре | Percent/Acreage | | - | | | |
| Forested Weiland | | SOIL TYPES | | | | |
| Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved | 30 | Histosol • Fibric • Hemic • Sapric | | | . 000000000000000000000000000000000000 | |
| Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved | 10 | Mineral Hydric Soil Gravelly Sandy Silty Clayey | | | 00000000000000000000000000000000000000 | |
| Needle-leaved Emergent Wetland | | GEOLOGY | OW FW F | Obligate Wetland Facultative Wetland Facultative | COM Comm OCC Occasi C Canop | ional |
| Persistent Non-persistent Aquatic Bed | = | Surficial: TILL | FU OU DOM | Facultative Upland Obligate Upland | S Saplin TS Tall SI LS Low S | g irub |
| Total | | Bedrock: Shak | | | H Herb | _ |
| Comments: | | and sandstone | | PRE-EMP | TIVE STATUS | |
| Commedia: | | | | Wildlife management area Fisheries management area Designated State or Federal protected wetlan | Documented hab state or federal l species Regionally scare wetland category Historic/archaeo | isted e |

| Small (<10 acres) | Number of Types & Relative Proportions: |
|--|--|
| Wetland Juxtaposition: Commected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurrence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Watershed Land Use; > 50% urbanized 0-25% urbanized Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/Perennial Outlet No Inlet/Perennial Outlet No Inlet/Potential Outlet No Inlet/Potential Outlet No Inlet/Potential Outlet No Inlet/Potential Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/No Outlet Intermittent Outlet/Perennial Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet Intermitent Outlet Intermitent Outlet Intermitent Outlet Intermitent Outlet Intermitent Outlet Intermitent Outlet I | Number of Types Evenness of Distribution Actual # Even Distribution S Moderately Even Distribution Highly Uneven Distribution 3 |
| HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring | Vegetation Density/Dominance: Sparse |
| Frequency of Overbank Flooding: Intermittent Spring | roportion of Animal Food Plants: MA |
| ☐ Return Interval 2-5 yrs. ☐ Return Interval 1-2 yrs. ☐ No Overbank Flooding ☐ Soil Lacking: | Low (5-25% cover) Medium (25-50% cover) |
| pH: NA Acid | High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches I or More Large Patches; Parts of Site Open |
| Glacial Till Silty | end Woody Material: Abrundant (>50 of wetland surface) |
| Wetland Land Use: | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) VEGETATION VARIABLES In | sterspersion of Cover and Open Water: |
| Wetland Water Regime! Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Saturated Semiperm. Flooded Saturated Semiperm. Flooded Semiperm. Flooded Semiperm. Flooded Forested - Deciduous - Broad-leaved Semiperm. Flooded Semiperm. Fl | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water 100% Cover or Open Water Highly Convoluted (index 1.50 or >) |
| High Gradient >2% Scrub Shrub - Deciduous - Broad-leaved Low Gradient <2% Scrub Shrub - Deciduous - Needle-leaved | Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 resence of Islands: Several to Many One or Few Absent |

| WEI BAND INV | ENTORT | 1 1 |
|--|-----------|---------------|
| Project Number: Concord | Date: | 10/21/04 |
| Wetland Number: W-46 | | |
| Photo Numbers: Transect 46.1 | | 3 1 |
| Field Investigators: (1), lliam Kenny Associates | LLC | |
| PART 1 - CHARACTER | IZATION o | f WETLAND |
| SURFACE WATER FLOW VECTORS | | PLANT SPECIES |

| SURFA | CE WATER FLOW VE | CTORS | PLANT SPECIES | | | |
|-------------------------------|-------------------|---------------------------------|--|--|--|--|
| Condition | Percent/Acrea | ge | | OW FFW OU CCOM CCOM CCOM CCOM CCOM CCOM CCOM C | | |
| .↓. | | Depressional | * for plant species sec | | | |
| 7 | | Depressional | sheet, | | | |
| d and and | 30 HIGH CON | DIE Slope | | | | |
| | 40 LOW 76K | no 210be | | | | |
| ٨ | -10- | | | | | |
| <u> </u> | | Extensive Peatland | | | | |
| 1 | | | - | | | |
| 1 | | | | | | |
| | | Lacustrine | | | | |
| | - | Fringe | | | | |
| ~ | 30 | | | | | |
| | 00 | Riverine | , | | | |
| | | | | | | |
| | Uparm, most manne | | | | | |
| | VEGETATION TYPES | | | | | |
| Туре | Percent/Acreage | | | | | |
| | | SOIL TYPES | | | | |
| Forested Wetland Evergreen | | | | | | |
| Needle-leaved | 40 | Histosol • Fibric | | | | |
| Deciduous Broad-leaved | 40 | • Hemic | | | | |
| Needle-leaved | | • Sapric | | | | |
| crub Shrub | | Mineral | | | | |
| Evergreen | • | Hydric Soil | | | | |
| Broad-leaved | | • Gravelly • Sandy | | | | |
| Needle-leaved Deciduous | <u> </u> | • Silty | | | | |
| Broad-leaved | 20_ | • Clayey | | | | |
| Needle-leaved | - | | OW Obligate Wetland FW Facultative Wetland | COM Common OCC Occasional | | |
| mergent Wetland | | GEOLOGY | F Facultative | C Canopy | | |
| Persistent Non-persistent | | Surficial: TIU | FU Facultative Upland | S Sapling | | |
| | | | OU Obligate Upland DOM Dominant | TS Tall Shrub LS Low Shrub | | |
| Aquatic Bed | | B 1 1 5 1 | DOM: DOMINIAN | H Herb | | |
| otal | | Bedrock: Shale and Sandstone | PRE-EMPT | TVE STATUS | | |
| Comments: | | | Public ownership | Documented habitat fo | | |
| | | | Wildlife management | state or federal listed | | |
| | | | area Fisheries management | species Regionally scarce | | |
| | | | area | wetland category | | |
| | | | Designated State or | Historic/archaeolegic | | |

| Microrellef of Wetland Surface: | Number of Types & Relative Proportions: |
|--|--|
| Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: No Inlet/Incomittent Outlet No Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Recharge Discharge Horizontal Flow Not Available Relationship of Wellands' Substrate Elevation to Regional Plezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring | Number of Types Evenness of Distribution Actual # Even Distribution Moderately Even Distribution Highly Uneven Distribution System (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers & Cover Some of Cayers & Cover Some of Layers & Cover Aumber of Layers & Cover Some of Layers & Cover Som |
| SOIL VARIABLES Soil Lacking: | Proportion of Animal Food Plants: №A Low (5-25% cover) Medium (25-50% cover) High (>50% cover) |
| Histosol: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| VEGETATION VARIABLES Vegetation Lacking: | Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: |
| Dominant Wetland Type: Forested - Evergreen - Needle-leaved | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |
| | Pronounced |

| Project Number: . | Concord | | | 4104 |
|--|-----------------|-----------------------------------|--|--|
| Wetland Number: | -4 3 117 | 1 | | |
| | | 17.1 | | |
| | | | | |
| USGS Quadrangle | 1111 V | ny Associates, | 110 | |
| Field Investigators | - DOTTIME TION | Ny 113500 (Wies) | | |
| | PART 1 | CHADACTED | IZATION of WETLAN | JD. |
| | IAKI | - CHARACTER | IZATION OF WEILA | |
| SURFA | CE WATER FLOW V | ECTORS | PLAN | NT SPECIES . |
| Condition | Percent/Acres | age | | OW FIN COM CCOM CCOM CCOM CCOM CCOM CCOM CCOM |
| → ← | 20 | Depressional | Jumper Polytrichum (moss) | |
| dochoda | 80_ | Cual Land | 10 | |
| **** | <u></u> | Slope GRADIENT | - 000 | |
| 1 | | Post Control | * For additional plant Species see delirention | |
| <-i→ | - | Extensive Peatland | Sheet | |
| V | | | | |
| | | Lacustrine | | |
| The state of the s | | Fringe | | |
| ⊕ , ⊕ | | Riverine | | |
| | | | | |
| | VEGETATION TYPE | 9 | | |
| Туре | Percent/Acreage | | | |
| | Tercent Acreage | dost munna | | |
| Forested Wetland Evergreen | | SOIL TYPES | | |
| Needle-leaved | _5_ | Histosol • Fibric | | |
| Deciduous Broad-leaved | 25_ | Fibric □ Hemic □ Sapric □ | | |
| Needle-leaved | | | | |
| Scrub Shrub Evergreen | • | Mineral Hydric Soil | | |
| Broad-leaved | - | • Gravelly • Sandy | | |
| Needle-leaved Deciduous | | • Silty . Clayey | | |
| Broad-leaved Needle-leaved | 70 | · Clayey | OW Obligate Wetland | COM Common |
| Emergent Wetland | | GEOLOGY | FW Facultative Wetland | OCC Occasional |
| Persistent | | Surficial: TILL | F Facultative FU Facultative Upland | C Canopy Sapling |
| Non-persistent | - | | OU Obligate Upland DOM Dominant | TS Tall Shrub LS Low Shrub |
| Aquatic Bed | | Bedrock: Shale | | H Herb |
| Total | | and sandstone | PRE-EMP | TIVE STATUS |
| Comments: | | | Public ownership Wildlife management | Documented habitat for state or federal listed |
| | | | area Fisheries management area Designated State or | state or federal listed species Regionally scarce welland category Historic/archaeologic |
| | | | Federal protected wetla | nd area |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: | | |
|---|---|--|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Wetland Juxtaposition: Connected Upstream and Downstream Only Connected Above | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Peremial Outlet No Inlet/Peremial Outlet | Number of Types Evenness of Distribution Actual 8 Even Distribution Moderately Even Distribution Highly Uneven Distribution 1 1 Vegetation Density/Dominance: | | |
| Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event | Intermittent Inter/No Outlet Intermittent Inter/Intermittent Outlet Intermittent Inter/Intermittent Outlet Perennial Inter/Intermittent Outlet Perennial Inter/Intermittent Outlet Perennial Inter/Perennial Outlet Perennial Inter/Perennial Outlet Recharge Discharge | Sparse (0-20%) Low Density (20-40%) Weddum Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) | | |
| No Evidence Regional Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) | Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: | Number of Layers and Percent Cover: Number of Layers # Cover 6 or > (setual #) 1. submergents: | | |
| Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized | Piez. Surface Above or at Substrate cicv. Piez. Surface below Substrate ciev. Not Available Evidence of Sedimentation: No Evidence Observed | 4 (3) moss-lichen; 3 4 short herb; 2 5. tall herb; 1 (6) dwarf shrub; 7. short shrub; (8) tall shrub; | | |
| HYDROLOGIC VARIABLES | Sediment Observed on Wetland Substrate Fluvaquent Soils | 9. sapling: 10. tree: | | |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never inundated | Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled | | |
| Frequency of Overbank Flooding: | ☐ Intermittent Spring | Proportion of Animal Food Plants: NA | | |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) Medium (25-50% cover) | | |
| pH: \(\rangle \hat{\lambda}\) \(\text{ Acid} <5.5 \\ \(\text{ Circumneural} 5.5-7.4 \\ \(\text{ Alkaline} >7.4 \\ \(\text{ No Water} \) | Histosol: Fibric Hemic Supric | ☐ High (>50% cover) Cover Distribution: ☐ Continuous Cover ☐ Small Scattered Patches ☐ 1 or More Large Patches; Parts of Site Open | | |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Sity Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) | | |
| Welland Land Use: High Intensity (ie. agriculture) | VEGETATION VARIABLES | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) | | |
| Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: | | |
| Wetland Water Regime? Wet Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Sessonally Flooded, Temporarily Flooded, Saurated | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: A.A. | | |
| Basin Topographic Gradient: High Gradient >2% Low Gradient <2% | Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent | Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: | | |
| Degree of Outlet Restriction: Restricted Outflow Umestricted Outflow No Outflow | Emergent - Non-persistent Aquatic Bed | Several to Many One or Few Absent | | |
| Ratio of Wetland Area to Watershed Area: High >10% | | | | |

| Project Number: | Concord |).5 * 1 | Date: _ | 10/21 | 104 | |
|--|----------------------------------|--|---------------------------------|--|--|---|
| Wetland Number: Photo Number: USGS Quadrangle | bers: Transect | 48.1 | | | | |
| Field Investigators | : William Ken | ny Associates, - CHARACTER | | of WETLAN | ID | |
| SURFA | CE WATER FLOW VE | CTORS - | | PLAN | T SPECIES | |
| Condition | Percent/Acreag | Depressional Slope Low Greeferd Flat Extensive Peatland Lacustrine Fringe | | species see in data sheet. | | |
| Туре | VEGETATION TYPES Percent/Acreage | Riverine | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved | 97 2 | Histosol Fibric Hemic Sapric Mineral Hydric Soil Gravelly Sandy Silty | | | | |
| Deciduous Broad-leaved Needle-leaved Emergent Wetland Persistent Non-persistent Aquatic Bed | | GEOLOGY Surficial: TILL | FW Faculta F Faculta FU Faculta | uve Upland e Upland | COM OCC C S TS LS H | Common Occasional Canopy Sapling Tall Shrub Low Shrub Herb |
| Total | | Bedrock: Shale | | PRE-EMPT | TIVE STATUS | iicio |
| Comments: | Hel g | | Wild area Fishe area Desi | c ownership life management ries management gnated State or ral protected wetlar | state or species Regional wetland Historic | nted habitat for federal listed tly scarce category farchaeologic |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: |
|--|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Wetland Juxtaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Human-caused; Predictable Human-caused; Sporndic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: >50% urbanized 0-25% urbanized 0-25% urbanized HyDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation Never Inundated | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Peremial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Outlet/Perennial Outlet Intermittent Inlet/Intermittent Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate Elevation to Regional Piezometric Surface: Piez. Surface below Substrate elev. | Number of Types |
| Frequency of Overbank Flooding: Return Interval 2-5 yrs. Return Interval 2-2 yrs. Return Interval 1-2 yrs. No Overbank Flooding PH: Acid <5.5 Circumeutral 5.5-7.4 | SOIL VARIABLES Soil Lacking: Histosol: Fibric | Proportion of Animal Food Plants: Low (5-25% cover) Medium (25-50% cover) High (>50% cover) Cover Distribution: |
| Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till Wetland Land Use: High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) | Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty Clayey VEGETATION VARIABLES | Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: |
| Moderate intensity (i.e. forestry) Low Intensity (i.e. open space) Wetland Water Regime! Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded. Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Urrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Vegetation Lacking: Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Scrub Strub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Broad-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many PIM MOUND Absent |

| ect Number: | Concord | _ | Date: | 11 13 104 |
|------------------------------|--------------|--------------|-------|-----------|
| and Number: Photo Numbers | W-49 L | 19.1 | _ | |
| Photo Numbers S Quadrangle: | Travecci | 1.11. | _ | |
| Investigators: | Dilliam Kenn | v Associates | ,uc | |

| SURFA | CE WATER FLOW VI | ctors | PLA: | NT SPECIES |
|---|------------------------|---|---|--|
| Condition | Percent/Acrea | | Winterberry Blueberry Bed Maple | |
| 9 | _ | Riverine | | 00000000000000000000000000000000000000 |
| | VEGETATION TYPE: | | | |
| Туре | Percent/Acreage | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved | <u>30</u> <u>50</u> | Histosol • Fibric • Hemic • Sapric | | |
| Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved | 20 | Mineral Hydric Soil Gravelly Sandy Silty Clayey | OW Obligate Wetland | COM Common |
| Emergent Wetland Persistent Non-persistent Aquatic Bed | | GEOLOGY Surficial: TILL | FW Facultative Wetland F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant | OCC Occasional C Canopy S Sapling TS Tall Shrub LS Low Shrub H Herb |
| Total . | | Bedrock: Shely and Sandstone | PRE-EMP | TIVE STATUS |
| Comments: | | | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetla | Documented habitat for state or federal listed species Regionally scarce wetland category Historic/archaeologic area |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: |
|---|--|---|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Injet/Outlet Class: | Number of Types Evenness of Distribution Actual # Even Distribution S Moderately Even Distribution Highly Uneven Distribution 3 |
| Wetland Juxta position: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural: Predictable Frequency Natural: Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: 50% urbanized 25-50% urbanized 0-25% urbanized 0-25% urbanized | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Perennial Outlet Perennial Outlet Perennial Outlet Perennial Outlet Perennial Outlet Perennial Inlet/Perennial Outlet P | Vegetation Density/Dominance: Sparse |
| HYDROLOGIC VARIABLES | No Evidence Observed Sediment Observed on Wetland Substrate | 8. tall shrub; 9. sapling; |
| Surface Water Level Fluctuation of Wetland; High Fluctuation Low Fluctuation Never Inundated | Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Frequency of Overbank Flooding: Return Interval > 5 yrs. | ☐ Intermittent Spring | Proportion of Aprimal Food Plants: |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) |
| pH: Acid <5.5 Circymneutral 5.5-7.4 Alpaline >7.4 No Water | Histosol: Fibric Hemic Sapric | Cover Distribution: Cover Distribution: Continuous Cover Small Scattered Patches I or More Large Patches; Parts of Site Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clavey | Dead Woody Material: Abrundant (>50 of wetland surface) |
| Wetland Land Use: | VEGETATION VARIABLES | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) | Vegetation Lacking: | Interspersion of Cover and Open Water: |
| Wetland Water Regime. Wet Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated | Dominant Welland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: |
| Basin Topographic Gradlent: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outlow Unrestricted Outlow No Outlow Ratio of Wetland Area to Watershed Area: High >10% | Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Dociduous - Broad-leaved Scrub Shrub - Dociduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | Highly Convoluted (Index 1.50 or >) Moderately Convoluted (Index 1.25-1.50) Straight/Slightly Irreg. (Index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |

| Wetland Numbers: | Project Number: | Concord | | _ D: | nte:10/2 | 1/04 | | |
|--|--|------------------|--|------|--|------------|--|--|
| Photo Numbers: Transact 50.1 USGS Quadrangle: Fleid Investigators: PART 1 - CHARACTERIZATION of WETLAND SURFACE WATER FLOW VECTORS Condition Percent/Acreage Depressional Slope Hich GRADIENT Flat Extensive Peatland Lacustrine Fringe Lacustrine Fringe Type Percent/Acreage Needle-leaved Needle-leave | | W-50 5 | | | | | | |
| USGS Quadrangle: Fleid Investigators: PART 1 - CHARACTERIZATION of WETLAND SURFACE WATER FLOW VECTORS Condition Percent/Acreage Depressional Slope Hich Gearsen Flat Extensive Peatland Lacustrine Fringe Lacustrine Fringe Type Percent/Acreage Needle-leaved N | | | 0.1 | | | | | |
| Field Investigators: PART 1 - CHARACTERIZATION of WETLAND | | | J. 1 | - | | | | |
| SURFACE WATER FLOW VECTORS Condition Percent/Acreage Depressional For plead spectives 5622 Classestime Fint Extensive Peatland Lacustrine Fringe Fringe Type Percent/Acreage Soil Types Type Percent/Acreage Soil Types Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved N | USGS Quadrangle: | | | - | | | | |
| SURFACE WATER FLOW VECTORS Condition Percent/Acreage Depressional | Field Investigators | | | _ | | _ | | |
| Depressional Depressional Extensive Peatland Extensive Peatland Lacustrine Fringe Fringe Type Percent/Acreage Forested Wetland Evergreen Needle-leaved | | PART 1 | CHARACTER | IZA | TION of WETLAN | 4D | | |
| Depressional De | SURFA | CE WATER FLOW VE | CTORS | | PLA | NT SPECIES | | |
| Depressional For plant specific Section | Condition | Percent/Acreag | <u>e</u> | | | W FW | MOC | S S S = |
| Slope Pitch Geaplest Flat Extensive Peatland Lacustrine Fringe Lacustrine Fringe Soll TYPES Type Percent/Acreage Forested Wetland Evergreen Needle-leaved Decidious Broad-leaved Needle-leaved Needle-leaved Needle-leaved Decidious Broad-leaved Needle-leaved Needle | 1 | | 2 - 5 - 5 | | | | المُونَّ مُن | |
| Extensive Peatland Lacustrine | ->^← | - | Depressional | delu | rection data sheet | - 0000 | | |
| Extensive Peatland Lacustrine | المراجعة | 50 | CI HIGH GRADIENT | - | w | | | |
| Extensive Peatland Lacustrine Fringe Fringe Comments: Extensive Peatland Comments Comment | ### | 50 | | | | | | |
| Lacustrine Fringe Solt Type Percent/Acreage Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Nee | ^ | - | 3.75 | - | | | | |
| Fringe Solity | ←→ | | Extensive Peatland | _ | | . 0000 | | |
| Fringe Solity | 1 | | | - | | | | |
| Fringe Solity | (III) | | | | | | | |
| VEGETATION TYPES Type Percent/Acreage Forested Wetland Evergreen Needle-leaved Decicluous Broad-leaved Needle-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leav | (人) | | | _ | | | | |
| VEGETATION TYPES Type Percent/Acreage SOIL TYPES Forested Wetland Evergreen Needle-leaved Needle- | TE | ~~ | Fringe | | 21 | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Sorub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Sandy Deciduous Broad-leaved Needle-leaved Sandy Silty Surficial: Allyworn Non-persistent Non-persistent Non-persistent Aquatic Bed Bedrock: Shark Bedrock: Shark PRE-EMPTIVE STATUS Public ownership Documented h | 0 | 50 | Riverine | | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Sorub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Sandy Deciduous Broad-leaved Needle-leaved Sandy Silty Surficial: Allyworn Non-persistent Non-persistent Non-persistent Aquatic Bed Bedrock: Shark Bedrock: Shark PRE-EMPTIVE STATUS Public ownership Documented h |) | | | - | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Sorub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Sandy Deciduous Broad-leaved Needle-leaved Sandy Silty Surficial: Allyworn Non-persistent Non-persistent Non-persistent Aquatic Bed Bedrock: Shark Bedrock: Shark PRE-EMPTIVE STATUS Public ownership Documented h | | UDOST LONG TURBO | | - | ,C | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Non-persistent Non-persistent Aquatic Bed Bedrock: Share Aquatic Bed SOIL TYPES Histosol Histosol Hemic Sapric Sapr | | | | - | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Needle-leaved Needle-leaved Sandy Silty Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Non-persistent Non-persistent Aquatic Bed Bedrock: Shade PRE-EMPTIVE STATUS Public ownership Documented h | Туре | Percent/Acreage | | | | 0000 | | عمممو |
| Histosol Fibric | Forested Wetland | | SOIL TYPES | - | | | | |
| Fibric Hemic Sapric Sandy Sandy Sandy Sandy Sandy Sandy Sapric Sandy Sapric Sandy Sapric Sapric Sapric Sapric Sapric Sapric Sapric Sapric Surficial: Alloword Sapric | Evergreen | 1* | Histosol | - | | | | |
| Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Ow Obligate Wetland Persistent Non-persistent Non-persistent Aquatic Bed Bedrock: Shele and Sand stork PRE-EMPTIVE STATUS Public ownership Documented h | | - | • Fibric 🔲 | | | | | |
| Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Ow Obligate Wetland Persistent Non-persistent Non-persistent Aquatic Bed Bedrock: Shele and Sand stork PRE-EMPTIVE STATUS Public ownership Documented h | Broad-leaved | 30 | • Hemic • Sapric | | | | | |
| Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Non-persistent Surficial: Allowom Non-persistent Aquatic Bed Bedrock: Shake Aquatic Bed Comments: Hydric Soil Sandy Sandy Silty Silty Clayey OW Obligate Wetland COM FW Facultative Wetland S Sapl OU Obligate Upland DOM Dominant LS Low H Hert PRE-EMPTIVE STATUS Public ownership Documented h | Needle-leaved | | | | | | | |
| Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Silty OW Obligate Wetland OCC Occurrence Surficial: Allowom Non-persistent Surficial: Allowom Non-persistent Surficial: Allowom Dominant LS Low DoM Dominant LS Low H Hert PRE-EMPTIVE STATUS Public ownership Documented here and standard policy of the product o | | | | - | | | | |
| Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Silty OW Obligate Wetland FW Facultative Wetland OCC Occ. FW Facultative Wetland FF Facultative Upland OU Obligate Upland OU Obligate Upland TS Tall DOM Dominant LS Low H Hert PRE-EMPTIVE STATUS Public ownership Documented h | | | • Gravelly 🔲 | - | | | | |
| Broad-leaved Needle-leaved Emergent Wetland Persistent Non-persistent Non-persistent Aquatic Bed Bedrock: Shake Total Clayey OW Obligate Wetland OCC Occur FW Facultative Wetland FF Facultative Upland OU Obligate Upland OU Obligate Upland OU Obligate Upland FF Facultative Upland OU Obligate Upland FF Facultative Upland OF FACULTATIVE STATUS PRE-EMPTIVE STATUS Public ownership Documented here | Needle-leaved | | | | | | | |
| Comments: Comm | and the second s | 60 | | | 1 | | | |
| Emergent Wetland Persistent Non-persistent Non-persistent Aquatic Bed Bedrock: Shake Available Sand store Comments: Emergent Wetland Surficial: Allowing F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant LS Low H Hert PRE-EMPTIVE STATUS Public ownership Documented h | | | | | | | | Common |
| Persistent Surficial: Allown FU Facultative Upland S Sapt OU Obligate Upland TS Tall DOM Dominant LS Low H Hert PRE-EMPTIVE STATUS Comments: Public ownership Documented h. | Emergent Wetland | | GEOLOGY | | A CONTRACTOR OF THE PROPERTY O | | | Occasional Canopy |
| Aquatic Bed Bedrock: Shale and Sand stone PRE-EMPTIVE STATUS Public ownership Documented h. | Persistent | | Surficial: Allvium | FU | Facultative Upland | | S | Sapling |
| Aquatic Bed Bedrock: Shale And Sand stone PRE-EMPTIVE STATUS Comments: Public ownership Documented h. | | - | | 100 | | | | Tall Shrub Low Shrub |
| Total and Sand stone PRE-EMPTIVE STATUS Comments: Public ownership Documented h. | Aquatic Bed | | Balancia Ch. An | DOM | Domnian | | | Herb |
| Comments: Public ownership Documented h | Total | | The state of the s | | PRE-EMP | TIVE STAT | US | |
| Wildlife management state or federal area species Fisheries management Regionally sca area wetland catego Designated State or Historic/archae | Comments: | | | | Wildlife management area Fisheries management area | | state or fi species Regional! wetland o | ederal listed by scarce category |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: |
|---|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evermess of Distribution Actual # Even Distribution Moderately Even Distribution Highly Uneven Distribution |
| Wetland Juxtaposition: Commected Upperram and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized | No Inlet/No Outlet No Inlet/Peremial Outlet No Inlet/Peremial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet Intermittent Outlet Perennial Inlet/Perennial Outlet Nested Piezometer Data: Recharge Discharge Horizontal Flow Not Available Reiatlonship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez, Surface Above or at Substrate elev. Piez, Surface below Substrate elev. Piez, Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed | Vegetation Density/Dominance: Sparse (0.20%) Low Density (20.40%) Medium Density (40.60%) High Density (60.80%) Very High Density (80.100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers % Cover 6 oe > (actus) #) 1. submergents: 5 2. floating: 4 3. moss-lichen: 3 4 3. moss-lichen: 3 4 3. moss-lichen: 4 3. short herb: 5 5 tall herb: 6 dwarf shrub: 7 short shrub: 8 tall shrub: |
| HYDROLOGIC VARIABLES | Sediment Observed on Wetland Substrate Fluvaquent Soils | 2 sapling: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: |
| Return Interval 1-2 yra. No Overbank Flooding PH: Acid <5.5 Circumneural 5.5-7.4 Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till Wetland Land Use: | Soil Lacking: Histosol: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Low (5-25% cover) Medium (25-50% cover) High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| ☐ High Intensity (ic. agriculture) | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) |
| Moderate Intensity (ie. forestry) Low Intensity (ie. open space) Wetland Water Regime. Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Sessonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Vegetation Lacking: Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |

| | 4 | WETLAND INV | ENTORY DATA | |
|---|------------------|--|--|----------------|
| USGS Quadrangle | bers: Transect 5 | Associates, L | Date:10/2 | 1/04 |
| SURFA | PART 1 | | ZATION of WETLAN | T SPECIES |
| Condition | Percent/Acreag | e | | >> - 2 % % U |
| 学典・ | VEGETATION TYPES | Depressional Slope Low Gradient Flat Extensive Peatland Lacustrine Fringe Riverine | * For plant species see delireation clote sheet | |
| Туре | Percent/Acreage | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved | 20 40 40 | | OW Obligate Wetland | COM Commos |
| | | CEOLOGY I | FW Facultative Wetland | OCC Occasional |

176

FU

OU

Facultative

area

area

DOM Dominant

Facultative Upland

Public ownership

Wildlife management

Fisheries management

Designated State or Federal protected wetland

Obligate Upland

C

S

TS

LS

H

species

arca

PRE-EMPTIVE STATUS

Canopy

Sapling

Tall Shrub

Low Shrub

Herb

Documented habitat for

state or federal listed

Regionally scarce wetland category Historic/archaeologic

GEOLOGY

Surficial: TILL

Bedrock: Shake

and Sandstone

Emergent Wetland.
Persistent

Non-persistent

Aquatic Bed

Comments:

Total

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: |
|--|--|--|
| Size: Small (<10 scres) Medium (10-100 scres) Large (>100 scres) | Propounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Injet/Outlet Class: | Number of Types Evenness of Distribution Actual #6 Even Distribution Moderately Even Distribution Highly Uneven Distribution 1 3 |
| Wetland Juxtaposition: Connected Upstream and Downstream Only Connected Below Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: | No Inlet/No Outlet No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Peremial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Nested Plezometer Data: Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface: Piez. Surface Above or at Substrate clev. Piez. Surface below Substrate clev. Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Solis | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers % Cover 6 or > (actual #) 8 3 4 3 4 3 4 5 5 6 7 8 8 8 8 9 8 9 9 10 11 12 13 14 15 16 17 17 18 18 19 10 10 10 10 10 10 10 11 11 12 13 14 15 16 17 17 18 18 19 10 |
| High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| ☐ Return Interval > 5 yrs. ☐ Return Interval 2-5 yrs. ☐ Return Interval 1-2 yrs. ☐ No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Proportion of Animal Food Plants: Low (5-25% cover) Medium (25-50% cover) |
| pH: Acid | Histosol: Fibric Hemic Sapric | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) |
| Wetland Land Use: High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: |
| Wetland Water Regime? Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratlo of Wetland Area to Watershed Area: High >10% Low <10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | □ 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: NA Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |

| Project Number: . | W-52 | | _ Dat | er10] | 0410 |
|--|------------------|-----------------------------|-------|--|---|
| Wetland Number: | | | - | | |
| Photo Numi | pers: Transact | 07.1 | - | | |
| USGS Quadrangle | -13 2 | _ | | | |
| Field Investigators | : William Frenny | · Associates, L | 10 | | |
| | | | | Ť. | |
| | PART 1 | - CHARACTER | RIZAT | ION of WETLAN | ID |
| CUREA | CE WATER FLOW VI | | | A STATE OF THE STA | |
| Condition | | | | FLAN | T SPECIES |
| Condition | Percent/Acrea | ge | 4. | 7 5 11 20 11 | OU DOOM |
| 1 | 80 | | 4 . 1 | plant species see | . 00000000000 |
| ->_< | 00 | Depressional | delin | eation data sheet | . 00000000000 |
| 1 | 20 | - MIGH | - | | |
| | 20 | Slope HIGH GRADIENT | - | | |
| A | | Flat | | | |
| <> | | Extensive Peatland | | | |
| 1 | | | _ | | |
| THE STATE OF THE S | | | - | | |
| | | Lacustrine | | | |
| | - | Fringe | | | |
| 200 | 8 | Riverine | | | |
| 9.0 | - | TO THIS | - | | |
| 1 | | | - | | |
| | VEGETATION TYPES | 3 | | | |
| Туре | Percent/Acreage | | | | |
| | | | - | | |
| Forested Wetland | | SOIL TYPES | - | | |
| Evergreen Needle-leaved | 15 | Histosol | | | |
| Deciduous | | • Fibric 🔲 | | | |
| Broad-leaved Needle-leaved | 40 | • Fibric • Hemic • Sapric | | | 000000000000000000000000000000000000000 |
| | | Mineral | | | |
| Scrub Shrub Evergreen | • | Hydric Soil | - | | |
| Broad-leaved | | • Gravelly • Sandy | | | |
| Needle-leaved Deciduous | - | • Silty 🔲 | | | |
| Broad-leaved | 15 | · Clayey | - | | |
| Needle-leaved | | - | | Obligate Wetland | COM Common OCC Occasional |
| mergent Wetland | | GEOLOGY | | Facultative Welland | C Canopy |
| Persistent Non-persistent | _ | Surficial: TILL | | Facultative Upland | S Sapling |
| | 30 | | | Obligate Upland | TS Tall Shrub LS Low Shrub |
| Aquatic Bed | 30 | Bedrock: Shale | 0.000 | | H Herb |
| otal | | and Sandstone | | PRE-EMPT | IVE STATUS |
| Comments: | | | | Public ownership | Documented habitat fo |
| | | | - | Wildlife management | state or federal listed |
| | | | | area Fisheries management | species Regionally scarce |
| | | | | | |
| | | | | area Designated State or | wetland category Historic/archaeologic |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: | | |
|--|--|---|--|--|
| Size: | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent | Number of Types Evenness of Distribution Actual P Even Distribution S Moderately Even Distribution Highly Uneven Distribution | | |
| Welland Juxiaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation Never Inundated | No Inlet/No Outlet No Inlet/Peremial Outlet No Inlet/Peremial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Perennial Flow Not Available Relationship of Wellands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs Seeps Observed Perennial Springs Seeps Observed Perennial Spring | Vegetation Density/Dominance: Sparse | | |
| Frequency of Overbank Flooding: Return Interval > 5 yrs. | ☐ Intermittent Spring | Proportion of Animal Food Plants: | | |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) Medium (25-30% cover) | | |
| pH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water | Histosol: Fibric Hemic Sapric | High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Paris of Site Open | | |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) | | |
| Wetland Land Use: | VEGETATION VARIABLES | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) | | |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (le. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: | | |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Sessonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: MAN-MADE Restricted Outflow DRAIN, UNDER Unrestricted Outflow ROAD No Outflow | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.23-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent | | |
| Railo of Wetland Area to Watershed Area: High >10% Low <10% | | - | | |

| Project Number: _ | Concord | 1,* | D | nte:10/2 | 22/04 | |
|--|---------------------|---------------------------------|----------|---|--|--|
| Wetland Number: | W-53 | | | | | |
| Photo Numb | ers: Transect 5 | 3.1 | | | | |
| The state of the s | | 11 | | | | |
| USGS Quadrangles | | Assac a to | LLC | | | |
| Field Investigators: | WIIIIAM I KON | y Associates, | | | | |
| | DADT 1 | CHADACTED | TO | TYON - CAMETE AN | 7 | |
| | PARTI | - CHARACTER | ILA | TION of WETLAN | D | |
| SURFA | CE WATER FLOW VI | ECTORS | | PLAN | T SPECIES | |
| Condition | Percent/Acrea | ge | | | OW FFU OU DOM COM | 9 20 |
| → / ← | | Depressional | * For | plant species see Invention data sheet | 000000 | |
| destat | 20 HIGH >GRA | nina Slope | | | 0000000 | 000000 |
| TTT | 30 bw | | - | | 0000000 | |
| 1 | | Extensive Peatland | | | | |
| ← ∫ | - | CARCIDIVE I CARRAIN | | | 0000000 | |
| TE | | | - | | | |
| | | Lacustrine | | | | |
| | ~ | Fringe | - | | | |
| ⊕ •⊕ | 50 | Riverine | 1 | | | |
| | | | | | | |
| | VEGETATION TYPE | S | - | | | 300000 300000 |
| Туре | Percent/Acreage | | | | المموموموم | |
| | - Tarasana Tarasana | COXT TWO CO | - | | | |
| Forested Wetland Evergreen | 200 | SOIL TYPES | | | | |
| Needle-leaved | 30 | Histosol • Fibric | | | | |
| Deciduous Broad-leaved | 60 | • Hemic | | | | |
| Needle-leaved | | • Sapric 🔲 | | | | |
| Scrub Shrub | | Mineral Hydric Soil | _ | | | |
| Evergreen Broad-leaved | 10 | • Gravelly | | | | |
| Needle-leaved Deciduous | - | • Sandy • Silty • Clayey | | | | |
| Broad-leaved | | • Clayey | | | | 30000U |
| Needle-leaved | | GEOLOGY | OW FW | Obligate Wetland Facultative Wetland | COM | Occasional |
| Emergent Wetland Persistent | | Surficial: TILL | F | Facultative Facultative Upland | C | Canopy Sapling |
| Non-persistent | | TISC. | OU | Obligate Upland | TS | Tall Shrub |
| Aquatic Bed | | 140.000 | DOM | Dominant | LS H | Low Shrub Herb |
| Total | | Bedrock: Shah and Send stone | | PRE-EMPT | IVE STATUS | |
| Comments: | | and some stoke | | Public ownership | | nted habitat for |
| | | | | Wildlife management area Fisheries management area Designated State or Federal protected wetlan | state or species Regional wetland Historic | federal listed lly scarce category archaeologic |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: | | |
|---|--|---|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent | Number of Types Evermess of Distribution Actual # Even Distribution See 4 Moderately Even Distribution Highly Uneven Distribution | | |
| | Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/No Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Rested Piezometer Data: Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate clev. Piez. Surface below Substrate clev. Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs: | Vegetation Density/Dominance: Sparse | | |
| Low Fluctuation Never Inundated Frequency of Overbank Flooding: Return Interval > 5 yrs. Return Interval 2-5 yrs. | No Sceps or Springs Sceps Observed Perennial Spring Intermittent Spring SOIL VARIABLES | Medium 3-4 plots sampled High 5 or more plots sampled Proportion of Animal Food Plants: NA | | |
| PRESUM Interval 1-2 yrs. No Overbank Flooding PH: NA Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water | Soil Lacking: Histosol: Fibric Hemia Sapric | Low (5-25% cover) Medium (25-50% cover) High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open | | |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till Wetland Land Use: | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) | | |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | Interspersion of Cover and Open Water: | | |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Sessonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradlent; High Gradient > 2% Low Gradient < 2% Degree of Outlet Restriction: Restricted Outflow | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Simuosity; Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: | | |
| Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% | ☐ Aquatic Bed | One or Few Absent | | |
| Low <10% | | | | |

| Project Number: Concord | _ Date: | 10/27/04 | |
|---|---------|----------|--|
| Photo Numbers: Transect 54:1 | - | | |
| USGS Quadrangle: | 110 | | |
| Field Investigators: William Kenny Associates | LLC | | |

| SURFA | CE WATER FLOW V | ECTORS | PLANT SPECIES . | | |
|--|----------------------|--|---|--|--|
| Condition Condition | Percent/Acres | Depressional | White Rive Beech Green Ash Recl Maple White Birch High Bush Blueberry Bhoolodendron, Rosebe *For additional plant species see defineation date sheet. | | |
| | VEGETATION TYPE | s | aut shirt | | |
| Туре | Percent/Acreage | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Emergent Wetland Persistent Non-persistent Aquatic Bed | 20 20 20 20 | Histosol Fibric Hemic Sapric Mineral Hydric Soil Gravelly Sandy Clayey GEOLOGY Surficial: TILL Bedrock: Skale | OW Obligate Wetland FW Facultative Wetland F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant | COM Common OCC Occasional C Canopy S Sapling TS Tall Shrub LS Low Shrub H Herb | |
| l'otal | otal and Sandstone | | PRE-EMPT | IVE STATUS | |
| Comments:M | ostly Meadow | Area | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetlan | Documented habitat for state or federal listed species Regionally scarce wetland category Historic/archaeologic area | |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: |
|--|---|---|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Weiland Juxtaposition: | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evermess of Distribution Actual # Ever Distribution Moderately Ever Distribution Highly Unever Distribution Highly Unever Distribution |
| Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 0-25% urbanized | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Peremial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Nested Plezometer Data: Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface: Piez, Surface Above or at Substrate elev. Piez, Surface below Substrate clev. Piez, Surface below Substrate clev. Evidence of Sedimentation: | Vegetation Density/Dominance: Space (0-20%) Cow Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: |
| HYDROLOGIC VARIABLES | ■ No Evidence Observed □ Sediment Observed on Wetland Substrate | 8) tall shrub: 9. sapling: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never inundated Frequency of Overbank Flooding: | Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed From Lake Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: Low (5-25% cover) |
| Return Interval 1-2 yrs. No Overbank Flooding pH: Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till Wetland Land Use: Previous | Soft Lacking: Histosol: Fibric Hemic Supric Mineral Hydric Soil: Gravelly Sandy Sitty Clayey | Medium (25-50% cover) High (>50% cover) Cover Distribution: |
| High Intensity (ie. agriculture) Chesidence | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) |
| Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Broad-leaved Emergent - Persistent - Mec. Low Aquatic Bed | Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |

| Project Number: _ | W-65 | | Date: | 7/04 |
|---|--------------------|---|--|---|
| Wetland Number: Photo Numb USGS Quadrangle: | ers: Transect 55.1 | 0 / / | + -\ | |
| Field Investigators: | | | LC SIZATION of WETLA | ND |
| SURFAC | CE WATER FLOW VEC | TORS | PLA | ANT SPECIES |
| Condition | Percent/Acreage | - | | OW FFU DOW CCOM CCOM CCOM S S S S S S S S S S S S S S S S S S S |
| → / ← | - | Depressional | Smooth Alder | _ 00000000000000 10000000000000000000000 |
| ### | 50 LOW Gredwort | Slope | * For adolitional plant | _ 000000000000 2000000000000000000000000 |
| $\leftarrow \downarrow \rightarrow$ | - | Extensive Peatland | Species see delinection duta sheets | |
| | _ | Lacustrine Fringe | | |
| D | · | Riverine | | _ 000000000000000000000000000000000000 |
| | VEGETATION TYPES | | | |
| Туре | Percent/Acreage | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved | 5_10_ | Histosol Fibric Hemic Sapric | | |
| Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved | 10 | Mineral Hydric Soil Gravelly Sandy Silty Clayey | | - 000000000000000000000000000000000000 |
| Needle-leaved Emergent Wetland Persistent Non-persistent Aquatic Bed | 75 | GEOLOGY Surficial: T.II | OW Obligate Wetland FW Facultative Wetland F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant | COM Common OCC Occasional C Canopy S Sapling TS Tall Shrub LS Low Shrub |
| Total | | Bedrock: Shall and Sandstone | PRE-EMI | PTIVE STATUS |
| Comments: Mas- | Hy Meadon Arca | V V"III 2101~ | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetl | Documented habitat for state or federal listed species Regionally scarce wetland category Historic/archaeologic |

| LANDSCAPE VARIABLES Size: | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: Number of Types Evenness of Distribution | | |
|---|--|---|--|--|
| Small (<10 acres) Medium (10-100 acres) | Well Developed 15-45 cm ☐ Poorly Developed <15 cm ☐ Absent | Acrual 9 Even Distribution S Moderately Even Distribution Highly Uneven Distribution | | |
| □ Large (>100 acres) Wetland Juxia position: □ Connected Upstream and Downstream □ Only Connected Above □ Only Connected Below □ Other Wetlands Nearby but not Connected □ Wetland Isolated Fire Occurence and Frequency: □ Natural; Predictable Frequency □ Natural; Sporadic Frequency □ Human-caused; Predictable □ Human-caused; Sporadic □ Rare Event ■ No Evidence Regional Scarcity: □ Not Scarce (>5% of total wetland area of region) □ Scarce (<5% of total wetland area of region) Watershed Land Use: | Inlet/Outlet Class: No Inlet/No Outlet No Inlet/No Outlet No Inlet/Peremial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate clev. Piez. Surface below Substrate clev. | Highly Uneven Distribution 3 2 2 3 1 2 3 3 3 2 3 3 3 3 3 | | |
| ⇒ 50% urbanized 25-50% urbanized 0-25% urbanized → OLD FARM | Not Available Evidence of Sedimentation: | (5) dwarf shrub: | | |
| HYDROLOGIC VARIABLES | No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soils | 8. tall shrub: 9. sapling: (10) tree: | | |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled | | |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: | | |
| ☐ Return Interval 1-2 yrs. ☐ No Overbank Flooding | Soll Lacking: | Low (5-25% cover) | | |
| pH: Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water | Histosol: Fibric Hemic Sapric | Cover Distribution: Continuous Cover Small Scattered Patches I or More Large Patches; Pans of Site Open Solitary, Scattered Stems | | |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of welland surface) | | |
| Wetland Land Use: High Intensity (ie. agriculture) OLD FARM Moderate Intensity (ic. forestry) | VEGETATION VARIABLES Vegetation Lacking: | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: | | |
| □ Low Intensity (le. open space) Wetland Water Regime! Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded □ Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: □ High Gradient >2% □ Low Gradient <2% Degree of Outlet Restriction: □ Restricted Outflow □ Unrestricted Outflow □ No Outflow Ratio of Wetland Area to Watershed Area: □ High >10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent | | |
| Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: | | One or Few | | |

| Vectand Numbers Vector V | mark at North and | Concorel | 4.5 | Date: 10 8 | 17/04 |
|--|----------------------|--------------------|--------------------|--|--|
| Photo Numbers: USGS Quadrangle: Field Investigators: Alliana Kerny Associates LLC PART 1 - CHARACTERIZATION of WETLAND SURFACE WATER FLOW VECTORS Condition Percent/Acreage Depressional Lab Book Shekery Fish top Osks Condition Percent/Acreage Fish top Osks Condition Percent/Acreage Fish top Osks Fish top Osks Condition Percent/Acreage Fish top Osks Fish top Osks Condition Percent/Acreage Fish top Osks Condition Percent/Acreage Fish top Osks | Project Number: _ | | | Date: | |
| USGS Quadrangle: Fleld Investigators: | | Tours | 5/ 1 | | |
| Fleid lavestigators: Addition Percent/Acreage Condition Percent/Acreage Flant species | Photo Numb | ers: MANSECT , | 06.1 | • | |
| SURFACE WATER FLOW VECTORS Condition Percent/Acreage Depressional Flat top Path Extensive Pearland Extensive Pearland Extensive Pearland Fringe Lacustrine Fringe Riverine VEGETATION TYPES Type Percent/Acreage Sold to Standary Sold | USGS Quadrangle: | | | 4.2 | |
| SURFACE WATER FLOW VECTORS Condition Percent/Acreage Depressional | Field Investigators: | William Ken | ny Associates | ILC | |
| SURFACE WATER FLOW VECTORS Condition Percent/Acreage Depressional | | | | | |
| Depressional Depressional | | PART 1 | - CHARACTER | IZATION of WETLAN | ND |
| Depressional Depressional | | OR WATER ET OUT VI | CTORC . | Dr. AV | er chectee |
| Depressional De | | | | TLA | |
| Depressional Depressional Fiel- top Sisc High Book Blocknow Reach Pack Maple Reach Rea | Condition | PercenuAcres | ige | 1. The state of th | PW P |
| Slope low grobust Plat P | 1 | | 20000 | Flat-top Aster | |
| Slope low grobert Flat Sugar Maple S | → <u></u> | - | Depressional | High Bush Bluebury | |
| Flat | | 20 | | | |
| Extensive Peatland Comments: Medical Eleaved Decidious Broad-leaved Needle-leaved Sand's loved Sand's lo | | _10_ | | | |
| Lacustrine Pringe Lacustrine Pringe Riverine VEGETATION TYPES Type Percent/Acreage Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Need | A . | | 1 lat | White Pine | |
| Lacustrine Fringe Sirve Greenty Gree | ← → | | Extensive Peatland | | |
| Lacustrine Fringe Riverine Contain Process | 1 | | | Shallhan | |
| Lacustrine Fringe Heavy Gross Correct Remonstration Fringe Heavy Gross Correct Remonstration Correct Remonstra | (III) | | | Jumper Polytrichum (m | |
| VEGETATION TYPES Surficial: TILL Surficial | (x) | | | Paverty Grass | |
| VEGETATION TYPES Corex Pennsylvanic Switch Gress Colden Fact Corex Pennsylvanic Corex Pennsylvanic Switch Gress Colden Fact | A | | Fringe | | |
| VEGETATION TYPES Type Percent/Acreage Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Sandy Deciduous Broad-leaved Needle-leaved Sandy Deciduous Broad-leaved Needle-leaved Sandy Deciduous Broad-leaved Needle-leaved Sandy Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Persistent Non-persistent Non-persistent Non-persistent Deciduous Broad-leaved Needle-leaved Needle-leav | (A) | 30 | Riverine | | |
| Type Percent/Acreage Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Occasional Ferget Wetland Persistent Non-persistent Non-persistent Aquatic Bed Occasional Fordal Sandslove Comments: Medical Type Occasional Reduced Needle Needl | | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Non-persistent Non-persistent Non-persistent Non-persistent PE Surficial: Till Bedrock: Shelt Aquatic Bed OU Obligate Wetland PRE-EMPTIVE STATUS PRE-EMPTIVE STATUS PRE-EMPTIVE STATUS Public ownership Widlife management area Species Fisheries management area Species Fisheries management area Species Regionally scarce wetland category Fullic ownership Widlife management area Species Regionally scarce wetland category Public ownership Widlife management area Species Regionally scarce wetland category Herb | | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Non-persistent | | VEGETATION TYPE | S | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Oeciduous Broad-leaved Needle-leaved Sandy Deciduous Broad-leaved Needle-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Non-persistent Non-persistent Non-persistent Non-persistent Aquatic Bed Total Bedrock: Short and Sandstone Public ownership Wildlife management area Species Fisheries management area Designated State or Historic/archaeoiegie | Type | Percent/Acreage | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Oeciduous Broad-leaved Needle-leaved Sandy Deciduous Broad-leaved Needle-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Non-persistent Non-persistent Non-persistent Non-persistent Aquatic Bed Total Bedrock: Short and Sandstone Public ownership Wildlife management area Species Fisheries management area Designated State or Historic/archaeoiegie | - Law 1 3 3 5 4 5 | | SOIL TYPES | | |
| Needle-leaved Deciduous Broad-leaved Sandy Sand-leaved Silty Broad-leaved Surficial: Till Surficial: Til | | | 8 9-14-79- | | . 00000000000000 |
| Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Needle- | Needle-leaved | 10 | 411010101 | | |
| Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Non-persistent Non-persistent Non-persistent Aquatic Bed Total Bedrock: Shark and Sands Ou Obligate Wetland Persistent Non-persistent Redow Typa w Riverine Public ownership Wildlife management area Species Fisheries management area Designated State or Historic/archaeoiogic | | 5 | | | |
| Scrub Shrub Evergreen Broad-leaved Needle-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Needle-leaved Non-persistent Persistent Non-persistent Non-persistent Non-persistent Non-persistent Aquatic Bed Total Bedrock: Shalt and Sand Slove Bedrock: Shalt and Sand Slove Public ownership Wildlife management area Segionally scarce Welland State or federal listed species Fisheries management area Designated State or Historic/archaeoiegic | | | • Sapric | | |
| Evergreen Broad-leaved Sandy Sandy Solity Sandy Solity Solitative S | South Shouth | | | | |
| Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Needle-leaved Solity GEOLOGY Emergent Wetland Persistent Non-persistent Non-persistent Aquatic Bed Total Bedrock: Share and Sandstone Bedrock: Share and Sandstone PRE-EMPTIVE STATUS PRE-EMPTIVE STATUS Public ownership Wildlife management area Species Fisheries management Ageionally scarce wetland category Bedrock: Share Advisible management Advisible management Advisible management Area Species Fisheries management Area Species Species Fisheries management Area Species Species Fisheries management Area Species Fisheries Fisheries Fisheries | Evergreen | • | Hydric Soil | | |
| Silty Silt | Broad-leaved | | | | |
| Broad-leaved Needle-leaved Needle-leaved Needle-leaved Persistent Non-persistent Non-persistent Non-persistent Non-persistent Non-persistent Non-persistent Aquatic Bed Total Bedrock: Shark and Sandstone PRE-EMPTIVE STATUS PRE-EMPTIVE STATUS Public ownership Wildlife management area Species Fisheries management area Species Fisheries management area Species Fisheries management area Wetland COM Common OCC Occasional FW Facultative Wetland OU Obligate Upland OU | | - | • Silty | | |
| Emergent Wetland Persistent Non-persistent Non-persistent Aquatic Bed Total Comments: McLow Type w Riverine GEOLOGY Surficial: Till Bedrock: Shake and Sandstone PRE-EMPTIVE STATUS Public ownership Wildlife management area species Fisheries management area wetland occ Occasional FF Facultative Wetland FF Facultative Upland S Sapling OU Obligate Upland DOM Dominant PRE-EMPTIVE STATUS Public ownership Wildlife management area species Fisheries management area wetland category Historic/archaeologic | Broad-leaved | 30 | · Clayey | | |
| Emergent Wetland Persistent Non-persistent Non-persistent Aquatic Bed Total Total Bedrock: Shake and Sandstone Comments: Melow Type w Riverine Public ownership Wildlife management area species Fisheries management state or federal listed species Fisheries management wetland Sands State or Historic/archaeologic | Needle-leaved | - | | | |
| Persistent Non-persistent Non-persistent Aquatic Bed Aquatic Bed Total Bedrock: Shake and Sandstone Comments: Melow Type w Riverine Public ownership Wildlife management state or federal listed species Fisheries management area wetland category Designated State or Historic/archaeologic | | 70.00 | | | |
| Aquatic Bed 10 Bedrock: Shake and Sandstone Comments: Medow Type of Riverine Public ownership Documented habitat for Wildlife management state or federal listed species Fisheries management area species Fisheries management Regionally scarce wetland category Designated State or Historic/archaeologic | | 48 | Surficial: TILL | FU Facultative Upland | |
| Aquatic Bed Bedrock: Shake and Sandstone Comments: Melow Type of Riverine Public ownership Documented habitat for Wildlife management state or federal listed species Fisheries management species Fisheries management Regionally scarce wetland category Designated State or Historic/archaeologic | | 10 | | | |
| Comments: Melow Type W Riverine Public ownership Wildlife management state or federal listed species Fisheries management grean wetland category Designated State or Historic/archaeologic | Aquatic Bed | 10 | Radrock: Ct. 1 | | |
| Comments: Medow Type of Biverine Public ownership Wildlife management state or federal listed species Fisheries management Regionally scarce wetland category Designated State or Historic/archaeologic | Total | | and Sandstone | PRE-EMP | TIVE STATUS |
| Wildlife management state or federal listed species Tisheries management Regionally scarce | Comments: Med | low Type W/ Bir | | | Documented habitat for |
| Fisheries management Regionally scarce area wetland category Designated State or Historic/archaeologic | | 11 1 | | | |
| area wetland category Designated State or Historic/archaeologic |) | | | | |
| | | | | arca | wetland category |
| | | | | | |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: |
|--|--|--|
| Size: Small (<10 scres) Medium (10-100 scres) Large (>100 scres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evermess of Distribution Actual 6 Even Distribution S Moderately Even Distribution Highly Uneven Distribution |
| | No Inlet/No Outlet No Inlet/Perennial Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Perennial Outlet Perennial Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate Elevation to Regional Piezometric Surface elev. Piez. Surface below Substrate elev. Piez. Surface below Substrate elev. Piez. Surface Observed Sediment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs; No Seeps or Springs Seeps Observed Perennial Spring Intermittent | Vegetation Density/Dominance: Sparse |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: NA |
| Return Interval 1-2 yrs. No Overbank Flooding | Soil Lacking: | Low (5-25% cover) |
| AU :He | Historol: | Cover Distribution: |
| ☐ Acid <5.5 ☐ Circumneutral 5.5-7.4 ☐ Atkaline >7.4 ☐ No Water | ☐ Fibric ☐ Hemic ☐ Sapric | Continuous Cover Small Scattered Patches I or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | |
| Wetland Land Use: | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) |
| Migh Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lucking: | Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral |
| ctland Water Regime; Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated asin Topographic Gradient: High Gradient >2% Low Gradient <2% | Dominant Welland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved | 25-3% Scattered or Peripheral 275% Scattered or Peripheral 275% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: |
| | ☐ Scrub Shrub - Evergreen - Broad-leaved ☐ Scrub Shrub - Evergreen - Needle-leaved ☐ Scrub Shrub - Deciduous - Broad-leaved ☐ Scrub Shrub - Deciduous - Needle-leaved | Highly Convoluted (Index 1.50 or >) Moderately Convoluted (Index 1.25-1.50) Straight/Slightly Irreg. (Index) 1.10-1.25 |
| Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow | Emergent - Persistent Emergent - Non-persistent Aquatic Bed | Presence of Islands: Several to Many One or Few Absent |
| Ratio of Wetland Area to Watershed Area: High >10% Low <10% | | |

| Project Number: Concord | _ Dute: | 10/27/04 |
|--|---------|----------|
| Vetland Number: W-57. | -0 | |
| Photo Numbers: Transect 57.1 | _ | |
| USGS Quadrangle: | | |
| Field Investigators: William Kenny Associates, | uc. | |

PART 1 - CHARACTERIZATION of WETLAND

| SURFACE WATER FLOW VECTORS | | PLANT SPECIES | | |
|-------------------------------------|-----------------|---------------------------------|--|--|
| Condition | Percent/Acrea | ge | *6 // | OW FFW FFW OOC C C C C C C C C C C C C C C C C C |
| → / ← | - | Depressional | * For plant species see delineation data sheets | . 000000000000000000000000000000000000 |
| Ť | 25 | | | |
| ### | 25 LOW) Grade | Slope | | |
| 1 | | 1800 | | |
| $\leftarrow \downarrow \rightarrow$ | | Extensive Peatland | | |
| (II) | | | | |
| | | Lacustrine Fringe | | |
| A | 50 | Riverine | | |
| | | | | |
| | VEGETATION TYPE | | | |
| Туре | Percent/Acreage | , | | |
| Type | rercenu Acreage | | | |
| Forested Wetland Evergreen | | SOIL TYPES | | |
| Needle-leaved Deciduous | 10 | Histosol • Fibric | | |
| Broad-leaved Needle-leaved | 30 | Hemic Sapric | | |
| Scrub Shrub | - | Mineral | | |
| Evergreen Broad-leaved | 40 | Hydric Soil • Gravelly | | |
| Needle-leaved | 70 | Sandy Silty | | |
| Deciduous Broad-leaved | | · Clayey | | |
| Needle-leaved | - | GRAL A GY | OW Obligate Wetland FW Facultative Wetland | COM Common OCC Occasional |
| Emergent Wetland. Persistent | | Surficial: TILL | F Facultative | C Canopy Sapling |
| Non-persistent | | Same Till | OU Obligate Upland | TS Tall Shrub |
| Aquatic Bed | 20 | Poster du CI | DOM Dominant | LS Low Shrub H Herb |
| Fotal | | Bedrock: Shale and Sandstone | PRE-EMPTIVE STATUS | |
| Comments: | | | Public ownership Wildlife management | Documented habitat fo state or federal listed species |
| | | | Fisheries management area Designated State or Federal protected wetlar | Regionally scarce wetland category Historic/archaeologic |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: |
|--|--|--|
| Size: Small (<10 scres) Medium (10-100 scres) Large (>100 scres) Wetland Juxtaposition: | Pronounced >45 cm Weil Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evenness of Distribution Actual #>7 Even Distribution 5 Moderately Even Distribution 4 Highly Uneven Distribution 3 2 |
| Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Nested Plezometer Data: Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Not Available | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers and Percent Cover: Number of Layers (20-10-10-10-10-10-10-10-10-10-10-10-10-10 |
| 25-50% urbanized 0-25% urbanized HYDROLOGIC VARIABLES | Evidence of Sedimentation: No Evidence Observed | 7. short shrub: 8. tall shrub: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never hundated Frequency of Overbank Flooding: Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding PH: Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till Wetland Land Use: | Sodiment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring Intermittent Spring SOIL VARIABLES Soil Lacking: Histosoi: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled Proportion of Animal Food Plants: Low (5-25% cover) Medium (25-50% cover) High (>50% cover) High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) |
| High Intensity (ie. sgriculture) Moderate Intensity (ie. forestry) | VEGETATION VARIABLES | Interspersion of Cover and Open Water: |
| Low Intensity (ic. open space) Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Vegetation Lacking: Dominant Wetland Type: Forested - Evergreen - Needle-Icaved Forested - Deciduous - Broad-Icaved Forested - Deciduous - Needle-Icaved Scrub Shrub - Evergreen - Broad-Icaved Scrub Shrub - Evergreen - Needle-Icaved Scrub Shrub - Deciduous - Broad-Icaved Scrub Shrub - Deciduous - Needle-Icaved Scrub Shrub - Deciduous - Needle-Icaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |

| Project Number: | Concord | , - | Date: | 10/28/04 |
|-------------------------------|-------------------------|---------------------------------|--|---|
| Wetland Number: | W-58 | | | |
| | ers: Transect 5 | 8.1 | | |
| | | 1-3-2- | | |
| USGS Quadrangle: | | | 10 | |
| Field Investigators: | William Mehn | y Associates, C | C(| |
| | PART 1 | - CHARACTER | RIZATION of WE | CTLAND |
| SURFA | CE WATER FLOW VI | ECTORS | | PLANT SPECIES |
| Condition | Percent/Acrea | ige | | OW FFW FFU ODD CCOM CCOM CCOM CCOM CCOM CCOM CCOM |
| → ← | 100 | Depressional | * For plant species delimention data | see000000000000000000000000000000000 |
| ###### | - | Slope | | |
| 1.1.1 | | Flat | | |
| 1 | | Extensive Peatland | | |
| | - | , | - | |
| 1 | | | - | |
| (A) | - | Lacustrine | | |
| | | Fringe | | |
| $\Theta \rightarrow \Theta$ | | Riverine | - | |
| | | | | |
| | III CORRIGO MANAGEMENTO | | | |
| | VEGETATION TYPE | 3 | | |
| Туре | Percent/Acreage | N-1 | | |
| Forested Wetland | | SOIL TYPES | - | |
| Evergreen Needle-leaved | 90 | Histosol | 3 | |
| Deciduous | | • Fibric 🔛 | | |
| Broad-leaved Needle-leaved | | · Sapric | | |
| Scrub Shrub | | Mineral | | |
| Evergreen | | Hydric Soil • Gravelly | | |
| Broad-leaved Needle-leaved | | Sandy | | |
| Deciduous | | • Silty | | |
| Broad-leaved Needle-leaved | 1 | · Clayey | OW Obligate Wetland | COM Common |
| | - | GEOLOGY | FW Facultative Wetlan | d OCC Occasional |
| Emergent Wetland Persistent | | Surficial: T,11 | F Facultative FU Facultative Upland | C Canopy S Sapling |
| Non-persistent | | 2000101001 17:11 | FU Facultative Upland OU Obligate Upland | TS Tall Shrub |
| Aquatic Bed | - | 27.034 | DOM Dominant | LS Low Shrub H Herb |
| Total | | Bedrock: Shale and Sandstone | PR | E-EMPTIVE STATUS |
| Comments: | | when smill status | Public ownersh | ip Documented habitat fo |
| | | | Wildlife manag | gement state or federal listed |
| - | | | Fisheries mana | species gement Regionally scarce |

arca

Designated State or Federal protected wetland

Regionally scarce wetland category Historic/archaeolegic

| LANDSCAPE VARIABLES Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Wetland Juxtaposition: | Microrelief of Wetland Surface: Pronounced >45 cm Wetl Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: No Inlet/No Outlet | Number of Types & Relative Proportions: Number of Types Evenness of Distribution Actual # Even Distribution 5 Moderately Even Distribution 4 Highly Uneven Distribution 3 2 | | |
|--|---|---|--|--|
| Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated | No Inlet/Intermittent Outlet No Inlet/Peretmial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/No Outlet Perennial Inlet/Intermittent Outlet | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Modium Density (40-60%) High Density (60-80%) Very High Density (80-100%) | | |
| Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized | Perennial Inter/Perennial Outlet Nested Plezometer Data: Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: | Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers & Cover Of 6 or > (actual #) 1. submergents: 5 2. floating: 4 3 4 5 short herb: 5 1 5 dwarf shrub: 7 short shrub: | | |
| ## 0-25% urbanized HYDROLOGIC VARIABLES | No Evidence Observed Sediment Observed on Wetland Substrate | 8. tall shrub: 9. sapling: | | |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Soeps Observed Percunial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled | | |
| | SOIL VARIABLES Soil Lacking: | Proportion of Animal Food Plants: Low (5-25% cover) | | |
| pH: Acid | Histosol: Fibric Hemic Sapric | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open | | |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) | | |
| Wetland Land Use: High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: | | |
| Wetland Water Regime? Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Broad-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent | | |

| Project Number: _ | Concord | | Date: | 3/28/04 |
|--------------------------------|-------------------|-------------------------|--|--|
| Wetland Number: | W-59 | | | |
| | ers: Transect 59. | 1 | | |
| USGS Quadrangle: | | | | |
| Eleld Investigators | William Ken | ny Associates, | LLC | A |
| rieia investigators. | | 7 | | |
| | PART 1 | - CHARACTER | IZATION of WETLA | AND |
| SURFAC | E WATER FLOW V | ECTORS | PL. | ANT SPECIES |
| Condition | Percent/Acres | age | | * |
| - | - | _ | Rhododendron Bos | ************************************** |
| → / ← | | Depressional | - I Indoorena DAY 100 | |
| 1 | | | | |
| ##### | 100 | STOPE HIGH GRADIENT | 4 | |
| TTT | 4 | Flat | | |
| 1 | | Extensive Peatland | * For additional plant | |
| ← → | - | - Cattain | species see délinent | 14. 000000000000000000000000000000000000 |
| | | | duta steet | |
| | | Lacustrine | | |
| | | Fringe | | |
| (A) | 4.7.4 | Riverine | | |
| | | | | |
| | | | | |
| | VEGETATION TYPE | S | - | |
| Туре | Percent/Acreage | | | |
| F | | SOIL TYPES | | |
| Forested Wetland Evergreen | 110 | Histosol | | |
| Needle-leaved Deciduous | 40 | • Fibric | | |
| Broad-leaved | 40 | • Hemic ☐ • Sapric ☐ | | |
| Needle-leaved | | | | |
| Scrub Shrub | | Mineral Hydric Soil | | |
| Evergreen Broad-leaved | 10 | • Gravelly Sandy | | |
| Needle-leaved Deciduous | | • Silty | | |
| Broad-leaved | | · Clayey | | |
| Needle-leaved | | aret eeu | OW Obligate Wetland FW Facultative Wetland | COM Common OCC Occasional |
| Emergent Wetland Persistent | | GEOLOGY | P Facultative | C Canopy |
| Non-persistent | | Surficial: Till | FU Facultative Upland OU Obligate Upland | S Sapling TS Tall Shrub |
| Aquatic Bed | | | DOM Dominant | LS Low Shrub H Herb |
| Total | | Bedrock: Shale | nne m | |
| | | and sandstone | | IPTIVE STATUS |
| Comments: | | | Public ownership Wildlife managemen | Documented habitat for state or federal listed |
| | | | area | species |
| | | | Fisheries managemen | Regionally scarce wetland category |
| | | | Designated State or | Historic/archaeologic |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: | |
|--|---|---|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Injet/Outlet Class: | Number of Types Evenness of Distribution Actual # Even Distribution S Moderately Even Distribution Highly Unaven Distribution 3 | |
| | No Intel/No Outlet No Intel/Intermittent Outlet No Intel/Perennial Outlet Intermittent Intel/No Outlet Intermittent Intel/No Outlet Intermittent Intel/No Outlet Intermittent Intel/No Outlet Perennial Intel/Intermittent Outlet Perennial Intel/Intermittent Outlet Perennial Intel/Perennial Outlet Perennial Intel/Perennial Outlet Perennial Intel/Perennial Outlet Nested Plezometer Data: Rechargo Dischargo Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface Above or at Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large pauches, concentric rings) Number of Layers and Percent Cover: Number of Layers & Cover 6 or > (actual #) 1. submergents: 5 2. floating: 6 or > (actual #) 2. floating: 1 3 4 3 moss-lichen: 2 3 4 3 short herb; 3 4 5 short herb; 4 6 dwarf shrub: 5 6 dwarf shrub: 6 dwarf shrub: 8 tall shrub: 9 sapling: 10 tree: Plant Species Diversity: | |
| ☐ Never Inundated Frequency of Overbank Flooding: ☐ Return Interval > 5 yrs. | Seeps Observed Percannal Spring Intermittent Spring | ☐ Medium 3-4 plots sampled ☐ High 5 or more plots sampled ☐ Proportion of Animal Food Plants: | |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) Medium (25-30% cover) High (>50% cover) | |
| pH: Acid | Histosol: Fibric Hemic Sapric | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Paris of Site Open | |
| urficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) | |
| Wetland Land Use: High Intensity (ic. sgriculture) | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: | |
| Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral (25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent | |

| Project Number: _ | Concord | | _ Da | ite:10 | 29/04 | |
|--------------------------------|--------------------------|----------------------|------|---------------------------------------|----------------------|---------------------------|
| Wetland Number: | | | | 3/-2 | | |
| Photo Number | ers: Transect G | 3,1 | | | | |
| | | | - | | | |
| USGS Quadrangle: | 1111 K | 1 1- | 11 | 1 | | |
| Field Investigators: | William Men | ny Associates | LC | | _ | |
| | n.pm.i | CYV. IN LOWER | *** | DYON - CANDON AN | un. | |
| | | | IZA | TION of WETLAN | | |
| | CE WATER FLOW VI | | | PLAN | ST SPECIES | |
| Condition | Percent/Acrea | ge | | | W PEU OU DOM DOM DOM | SIS |
| 1 | | | * Fo | plant species see | | |
| → <u>/</u> ← | | Depressional | del | neation data sheet. | | |
| T | | | | | | |
| total | 50 | Slope - Low Gradica | | | | |
| TTT | | Flat | _ | | | |
| A | - | | | | | |
| <> | | Extensive Peatland | - | | . 0000000 | |
| 1 | | | _ | | | |
| - | | | _ | | | |
| | | | - | | | |
| | | Lacustrine Fringe | - | | | |
| The same | 50 | Time | | | | |
| (A) | 30 | Riverine | | | | |
| 1 | | | - | | | |
| | | | | EC. | | |
| | VEGETATION TYPE | S | | | | عمووو |
| Туре | Percent/Acreage | | | | | |
| | . Tereconstruction Confe | | - | | | |
| Forested Wetland | | SOIL TYPES | _ | | | |
| Evergreen | 40 | Histosol | - | | | |
| Needle-leaved | 40 | | | | | |
| Deciduous Broad-leaved | 30 | • Hemic 🔲 | | | | |
| Needle-leaved | | Sapric | - | | | |
| | | Mineral | - | | | |
| Scrub Shrub Evergreen | • | Hydric Soil | | | | |
| Broad-leaved | 30 | · Gravelly | | | 0000000 | |
| Needle-leaved | | Sandy - Silty | | | 000000 | |
| Deciduous Broad-leaved | | · Clayey | | | 0000000 | |
| Needle-leaved | - | | ow | Obligate Wetland | CON | 1 Common |
| | | GEOLOGY | FW | Facultative Wetland | occ | |
| Emergent Wetland Persistent | | | F | Facultative | C | Canopy |
| Non-persistent | | Surficial: | FU | Facultative Upland Obligate Upland | S TS | Sapling Tall Shrub |
| | | MINNIM | DOM | Dominant | LS | Low Shrub |
| Aquatic Bed | | D 1 1 2 1 | | | н | Herb |
| Total | | Bedrock: Shele | | PRE-EMP | TIVE STATUS | |
| Comments: | | and Dandstone | | Public ownership | Docume | ented habitat fo |
| | | | | Wildlife management | | federal listed |
| | | | | area | species | |
| | | | _ | Fisheries management | | ally scarce I category |
| | | | | Designated State or | | archaeologic |
| | | | | Federal protected wetla | | ent per ann et er d |

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: | | |
|---|--|--|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Largo (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent Inlet/Outlet Class: | Number of Types Evermess of Distribution Actual # Even Distribution 5 Moderately Even Distribution 4 Highly Uneven Distribution 3 2 | | |
| Wetland Juxtaposition: Connected Upstram and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: >50% urbanized 0-25% urbanized 0-25% urbanized | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Peremial Outlet No Inlet/Peremial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Nested Plezometer Data: Recharge Discharge Discharge Horizontal Flow Not Available Relationship of Wellands' Substrate Elevation to Regional Piezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate clev. Not Available Evidence of Sedimentation: | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers & Cover Submergents: (10ating: 3 moss-lichen: 4 short herb: 5 tall herb: 6 dwarf shrub: (7) short shrub: | | |
| HYDROLOGIC VARIABLES | No Evidence Observed Sediment Observed on Wetland Substrate | 8. tall shrub: 9. sapling: | | |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Fluvaquent Soils Evidence of Seeps and Springs: No Sceps or Springs Sceps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled | | |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Proportion of Animal Food Plants: Low (5-25% cover) Medium (25-50% cover) | | |
| pH: Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No-Water Surficial Geologic Deposit Under Wetland | Histosol: Fibric Hemic Sapric Mineral Hydric Soil: | High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems | | |
| Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) | | |
| Wetland Land Use: | VEGETATION VARIABLES | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) | | |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (le. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: | | |
| Vetland Water Regime? Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: | | |
| Basin Topographic Gradient: High Gradient > 2% Low Gradient < 2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow | Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent | | |
| Ratio of Wetland Area to Watershed Area: High >10% Low <10% | | | | |

| Photo Numb USGS Quadrangles | () 1) 2 | | , LL | <u> </u> | |
|---|------------------|--|----------------------|---|--|
| | | , | RIZA | TION of WETLA | ND |
| SURFA | CE WATER FLOW V | ECTORS | | PLA | NT SPECIES |
| Condition | Percent/Acres 80 | Depressional Slope HIGH GRADIENT Flat Extensive Peatland Lacustrine Fringe Riverine | deli | plant species sec nuction olata sheet | |
| VEGETATION TYPES | | = | | | |
| Туре | Percent/Acreage | | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved | 70 | SOIL TYPES Histosol Fibric Hemic Sapric | | | |
| Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved | <u>20</u> | • Gravelly • Sandy • Silty • Clayey GEOLOGY | ow FW | Obligate Wetland Facultative Wetland | COM Common OCC Occasional |
| Emergent Wetland Persistent Non-persistent Aquatic Bed | = | Surficial: TILL | F FU OU DOM | Facultative Facultative Upland Obligate Upland Dominant | C Canopy S Sapling TS Tall Shrub LS Low Shrub H Herb |
| Total Bedrock: Shale | | and Sandstone | | PRE-EMP | TIVE STATUS |
| Comments: | | | = | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetla | Documented habitat for state or federal listed species Regionally scarce wetland category Historic/archaeologic area |

| LANDSCAPE VARIABLES Size: | Microrelief of Wetland Surface: Pronounced >45 cm Well Developed 15-45 cm | Number of Types & Relative Proportions: Number of Types Evenness of Distribution Actual # Even Distribution | | |
|--|--|--|--|--|
| Smail (<10 acres) Medium (10-100 acres) | Poorly Developed <15 cm | See Distribution Moderately Even Distribution Highly Uneven Distribution | | |
| ☐ Large (>100 acres) | Inlet/Outlet Class: | 83 | | |
| Wetland Juxtaposition: Connected Upstram and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Refe Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized HYDROLOGIC VARIABLES | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Intermittent Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet Perennial Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Nested Plezometer Data: Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers | | |
| HYDROLOGIC VARIABLES | ☐ Sediment Observed on Wetland Substrate ☐ Fluvaquent Soils | 9. sapling: (10) tree: | | |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never inundated Frequency of Overbank Flooding: | Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled | | |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: | | |
| Return Interval 1-2 yes. No Overbank Flooding | Soil Lacking: | Low (5-25% cover) Medium (25-50% cover) High (>50% cover) | | |
| pH: Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water | Histosol: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) | | |
| urficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | | | | |
| Wetland Land Use: High Intensity (ie. agriculture) | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) | | |
| Moderate Intensity (ie. Iorestry) Low Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral | | |
| Vetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated asin Topographic Gradient: | Dominant Welland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved | >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) | | |
| ■ High Gradient >2% □ Low Gradient <2% | Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved | Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: | | |
| Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow | ☐ Emergent - Persistent ☐ Emergent - Non-persistent ☐ Aquatic Bed | Several to Many One or Few Absent | | |
| Ratio of Welland Area to Watershed Area: High >10% Low <10% | | | | |

| Project Number: _ | Concord | | Date: | 129/04 |
|---|-----------------|---|--|---|
| Wetland Number: | ers: Transect 6 | 2.1 | | |
| USGS Quadrangle: Field Investigators: | William Ke | nny Associate | ZATION of WETLA | ND. |
| SURFACE WATER FLOW VECTORS | | PLANT SPECIES | | |
| Condition | Percent/Acrea | ge | | 7 7 X X O |
| →\ <u></u> ← | 50 | Depressional | x For plant species see delineation data sheet | |
| ### | 50 | Slope Law Gradient Flat Extensive Peatland | | |
| | | Lacustrine Fringe | | |
| | | Riverine | | |
| | VEGETATION TYPE | S | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved | Percent/Acreage | SOIL TYPES Histosol • Fibric • Hemic • Sapric | | |
| Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved | = | Mineral Hydric Soil Gravelly Sandy Silty Clayey | OW Obligate Wetland | |
| Emergent Wetland Persistent Non-persistent Aquatic Bed | | GEOLOGY Surficial: Till | FW Facultative Wetland F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant | OCC Occasional C Canopy S Sapling TS Tall Shrub LS Low Shrub H Herb |
| Total | | Bedrock: Shale | PRE-EMP | TIVE STATUS |
| Comments: | | That Sand STORE | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetl | Documented habitat for state or federal listed species Regionally scarce wetland category Historic/archaeologic |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: | |
|--|---|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Large (>100 acres) Comected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed 15-45 cm Poorly Developed <15 cm Absent | Number of Types | |
| HYDROLOGIC VARIABLES | ■ No Evidence Observed Sediment Observed on Wetland Substrate | 8. tall shrub: (9) sapting: | |
| Surface Water Level Fluctuation of Weiland; High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled | |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: | |
| Return Interval 1-2 yrs. No Overbank Flooding | Soft Lacking: | ☐ Low (5-25% cover) ☐ Medium (25-50% cover) ☐ High (>50% cover) | |
| pH: Acid | HIstosol: Fibric Hemic Sapric Mineral Hydric Soil: | Cover Distribution: Continuous Cover Small Scattered Patches I or More Large Patches; Parts of Site Open Solitary, Scattered Stems | |
| Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Gravelly Sandy Silty | Dead Woody Material: Abrundant (>50 of wetland surface) | |
| Wetland Land Use: | Clayey | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) | |
| ☐ High Intensity (ie. agriculture) ☐ Moderate Intensity (ie. forestry) ☐ Low Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral | |
| Wetland Water Regime! Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarity Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Urrestricted Outflow No Outflow | Dominant Welland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent | |
| Railo of Wetland Area to Watershed Area: High >10% Low <10% | | | |
| | | | |

| Project Number: _ | Concord | | _ Date: | 29/04 |
|-------------------------------|------------------|---------------------------|--|---|
| Wetland Number: | W:63 | | | |
| | 7 1 | 63.1 | | |
| Photo Numb | | 00.1 | | |
| USGS Quadrangle: | | 0. 1 | 11.0 | |
| Field Investigators: | William he | nny Associate | is LL(| |
| | | | | |
| | PART 1 | - CHARACTER | IZATION of WETLA | ND |
| SURFACE WATER FLOW VECTORS | | | PLANT SPECIES | |
| Condition | Percent/Acreag | ge | | OW PFW OOC C C C C C C C C C C C C C C C C C |
| | | | * For plant species see | \$\$"59889" * 52 = 8 |
| → V ← | | Depressional | delineation data sheet | |
| 1 | | | William Street Street | |
| + | 40 HICHYGRAN | Slope | Q - 1 - 1 - 1 - 1 | . 000000000000 |
| TTT | 30 100 | (vil a to be | | _ 000000000000000 |
| A | | | | |
| <> | | Extensive Peatland | | |
| | | | | |
| TE | | | | |
| (A) | 1000 | Lacustrine | | |
| | | Fringe | | _ 0000000000000 |
| ~~ | 30 | Riverine | | _ 000000000000 |
| 1 | | KIVCIAIC | - | |
|) | | | | |
| | VEGETATION TYPES | | | |
| | | | | |
| Туре | Percent/Acreage | | | |
| Forested Wetland | | SOIL TYPES | - | |
| Evergreen | Q'CA | Histosol | - | |
| Needle-leaved | 80 | • Fibric 🔲 | - | |
| Broad-leaved | 20 | • Hemic • Sapric | | |
| Needle-leaved | | • Sapric 🗀 | | |
| Scrub Shrub | | Mineral | | |
| Evergreen | • | Hydric Soil • Gravelly □ | | . 000000000000 |
| Broad-leaved Needle-leaved | | Sandy | | |
| Deciduous | | • Silty Clayey | | |
| Broad-leaved Needle-leaved | | Clayer [| OW Obligate Wetland | COM Common |
| | - | CEOLOGY | FW Facultative Wetland | OCC Occasional |
| Emergent Wetland. Persistent | | GEOLOGY | F Facultative | C Canopy |
| Non-persistent | | Surficial: Till | FU Facultative Upland OU Obligate Upland | S Sapling TS Tall Shrub |
| | 7.72 | | DOM Dominant | LS Low Shrub |
| Aquatic Bed | - | Bedrock: Shale | | H Herb |
| Total | | and sandstone | PRE-EMF | TIVE STATUS |
| Comments: | | Liver DWA BE JADLOT | Public ownership | Documented habitat for |
| evisioni o | | | Wildlife management | state or federal listed |
|) | | | area Fisheries management | species |
| | | | area | Regionally scarce wetland category |
| | | | Designated State or | Historic/archaeologic |

area
Designated State or
Federal protected wetland

arca

| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized Hydrologic Variables Surface Water Level Fluctuation of Wetland: High Fluctuation | Microrellef of Wetland Surface: Pronounced | Number of Types & Relative Proportions: Number of Types | |
|---|---|---|--|
| Low Fluctuation Never Inundated Frequency of Overbank Flooding: Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. | No Seeps or Springs Seeps Observed Intermited Spring SOIL VARIABLES | Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled Froportion of Animal Food Plants: Low (5-25% cover) Medium (25-30% cover) High (>50% cover) High (>50% cover) Cover Distribution: Continuous Cover Small Scauered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: 26-75% Scautered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several 10 Many One or Few Absent | |
| Return Interval 1-2 yrs. No Overbank Flooding OH: Acid <5.5 Circumneutral 5.5-7.4 Atkaline >7.4 No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till Vetland Land Use: | Soil Lacking: Histosol: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty Clayey | | |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Broad-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | | |

WETLAND INVENTORY DATA

| Project Number: _ | Concord | | _ D: | ite: | 28104 | |
|-------------------------------|-------------------|---------------------------------|----------|--|--|--|
| Wetland Number: | W-64 | | | | | |
| | ers: Transact 64. | 1 | | | | - |
| | | | _ | | | |
| USGS Quadrangle: | William Kenny | Asencia bes | LLC | | | |
| Field Investigators: | William Henry | 1135016103 | | | | |
| | PART 1 | CHARACTER | 217.A7 | TION of WETLAN | an an | |
| | | | 1 | | | |
| | CE WATER FLOW VE | | | PLAN | T SPECIES | - |
| Condition | Percent/Acreag | e | | | FW FU OU | IS S C C C C C C C C C C C C C C C C C C |
| → / ← | 70 | Depressional | | plant species see neation data sheet | | |
| destate | | Slope | | iu. | | |
| TTT | | Flat | - | | | |
| 1 | | Extensive Peatland | | | | |
| | - | | - | | | |
| (IE) | | | | | | |
| | - | Lacustrine | - | | . 0000000 | |
| 1 | 30 | Fringe | | | | |
| 99 | 30 | Riverine | - | 11 | | |
| | | | - | - 10 | | |
| | VEGETATION TYPES | | | | | |
| Туре | Percent/Acreage | | - | | | |
| Forested Wetland | | SOIL TYPES | | | 0000000 | |
| Evergreen | 50 | Histosol | | | | |
| Needle-leaved Deciduous | | • Fibric • Hemic | | | | |
| Broad-leaved Needle-leaved | 40 | • Sapric | - | | | |
| Scrub Shrub | | Mineral | | | | |
| Evergreen Broad-leaved | • | Hydric Soil Gravelly | _ | | | |
| Needle-leaved | | Sandy Silty | - | | | |
| Deciduous Broad-leaved | 10 | · Clayey | | | | |
| Needle-leaved | | | OW FW | Obligate Wetland Facultative Wetland | 00 | |
| Emergent Wetland. Persistent | | Surficial: 7(1) | F | Facultative | C | Canopy |
| Non-persistent | | Suriciai. 1/11 | ou ou | Facultative Upland Obligate Upland | TS | Sapling Tall Shrub |
| Aquatic Bed | | | DOM | Dominant | LS H | Low Shrub Herb |
| Total | | Bedrock: Shale and Sandstone | | PRE-EMP | TIVE STATUS | |
| Comments: | | over soughtons | | Public ownership | | nented habitat for |
| | | | | Wildlife management area Fisheries management area Designated State or Federal protected wetla | state o specie Regior wetlan Histori | r federal listed |

WETLAND INVENTORY DATA (continued)

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: |
|---|--|---|
| Size: Small (<10 acres) Medium (10-100 acres) | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent | Number of Types Evenness of Distribution Actual # Even Distribution Moderately Even Distribution Highly Uneven Distribution |
| Large (>100 acres) | Inlet/Outlet Class: | |
| Welland Juxtaposition: Commetted Upstream and Downstream Only Connected Below Only Connected Below Other Wellands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rere Event No Evidence Regional Scarcity: Not Scarce (>5% of total welland area of region) Scarce (<5% of total welland area of region) Watershed Land Use: >50% urbanized 0-25% urbanized 0-25% urbanized | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Intermittent Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Nested Plezometer Data: Recharge Discharge Discharge Not Available Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface: Piez, Surface Above or at Substrate elev. Piez, Surface below Substrate elev. Piez, Surface below Substrate elev. Evidence of Sedimentation: | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers % Covee 6 or > (actual #) 1. submergents: 5 2. floating: 4 3 4 3 short herb: 1 6. dwarf shrub: 1 6. dwarf shrub: 1 6. dwarf shrub: |
| HYDROLOGIC VARIABLES | No Evidence Observed Sediment Observed on Wetland Substrate | 8. tall shrub; (2) sapling: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: Return Interval > 5 yrs. | Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled Proportion of Animal Food Plants: |
| ☐ Return Interval 2-5 yrs. ☐ Return Interval 1-2 yrs. ☐ No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) Medium (25-50% cover) |
| pH: Acid <5.5 Circumneutral 5.5-7.4 Atkeline >7.4 No Water Surficial Geologic Deposit Under Wetland | Histosol: Fibric Hemic Sapric Mineral Hydric Soil: | Cover Distribution: Continuous Cover Small Scattered Patches I or More Large Patches; Parts of Site Open Solitary, Scattered Stems |
| Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| Wetland Land Use: | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open apace) | Vegetation Lacking; | Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Sessonally Flooded, Temporarily Flooded, Saurated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistem Aquatic Bed | >75% Scattered or Peripheral 25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |

WETLAND INVENTORY DATA

| Project Number: _ | Concord | | _ Dat | 12/2/04 | |
|-------------------------------|------------------|------------------------|-------|---|--|
| Wetland Number: | JW-70 - | | | | |
| | ers: Transect 7 | 0.1 | | | |
| USGS Quadrangle: | | | | | |
| Field Investigators: | (111. V | my Associate | s 6 | LC | |
| Field Investigators. | | // | 7 | | |
| | PART 1 | - CHARACTER | IZAT | ION of WETLAN | ND . |
| | | nomona . | | | m appeared |
| | CE WATER FLOW VI | | | PLA | ST SPECIES |
| Condition | Percent/Acrea | ige | 100 | | OW PEW COM COOK COOK COOK COOK COOK COOK COOK |
| → | - | Depressional | * For | plant species sec extra plata shupt | |
| + | 106 | Slope LOW GRADIEN | | | |
| **** | 1 | Flat | | | |
| 1 | | Extensive Peatland | - | | |
| <> | | Exicisive realiand | | | |
| 10 | | | - | | . 00000000000000000000000000000000 |
| | | Lacustrine | | | |
| A. | | Fringe | - | · · | |
| 9-9 | | Riverine | | 1. | |
|) | | | _ | | |
| | VEGETATION TYPE | s | | | |
| Туре | Percent/Acreage | | | | |
| | | SOIL TYPES | - | | |
| Forested Wetland Evergreen | | | | | |
| Needle-leaved | 85_ | Histosol - Fibric | _ | | |
| Deciduous Broad-leaved | 15 | • Hemic | | | |
| Needle-leaved | | | | | |
| Scrub Shrub Evergreen | • | Mineral Hydric Soil | - | | |
| Broad-leaved | | • Gravelly [| | | |
| Needle-leaved Deciduous | - | • Silty 🖼 | | | |
| Broad-leaved Needle-leaved | _ | · Clayey 🔲 | ow | Obligate Wetland | COM Common |
| Emergent Wetland | | GEOLOGY | FW | Facultative Wetland | OCC Occasional |
| Persistent | - | Surficial: Till | | Facultative Facultative Upland | C Canopy Sapling |
| Non-persistent | - | | | Obligate Upland Dominant | TS Tall Shrub LS Low Shrub |
| Aquatic Bed | | Bedrock: Shale | 2.000 | | H Herb |
| Total | - | and sordstone | | PRE-EMP | TIVE STATUS |
| Comments: | | | | Public ownership Wildlife management | Documented habitat for state or federal listed |
| | | | | Fisheries management | species Regionally scarce |
| | | | | area Designated State or | wetland category Historic/archaeologic |
| | - | | | Federal protected wetla | |

WETLAND INVENTORY DATA (continued)

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: Pronounced >45 cm | Number of Types & Relative Proportions: Number of Types Evenness of Distribution |
|--|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) | ☐ Weil Developed 15-45 cm ☐ Poorly Developed <15 cm ☐ Absent | Actual # Even Distribution 5 |
| Large (>100 acres) Wetland Juxta position: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Searcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized | Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Intermittent Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface: Piez. Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: | 3 |
| HYDROLOGIC VARIABLES | No Evidence Observed Sediment Observed on Wetland Substrate | 8, tall shrub: (9, sapling: 10) tree: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: |
| Return Interval 1-2 yes. No Overbank Flooding | Soil Lacking: | Low (5/15% cover) High (>50% cover) |
| pH: Acid <5.5 Circumneutral 5.5-7.4 Agratine >7.4 No Water Surficial Geologic Deposit Under Wetland | Histosol: Fibrie Hemic Sapric Mineral Hydric Soil: | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems |
| Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| Wetland Land Use: High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) | VEGETATION VARIABLES Vegetation Lacking: | Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: |
| Low Intensity (Ic. open space) Wetland Water Regime! Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded. Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Utrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral >75% Scattered or Peripheral 25% Scattered or Peripheral 100% Cover or Open Water Stream Sinusity: |

WETLAND INVENTORY DATA

| Project Number: Concond Wetland Number: W-7! Aerial Photo Numbers: Transect 71. | Date: | 12/2/04 | |
|---|-------------|---------|--|
| USGS Quadrangle: William Kenny Associates | LLC | | |
| PART 1 - CHARACTERIZ | ZATION of Y | WETLAND | |

| SURFA | CE WATER FLOW VE | CTORS | PLAN | T SPECIES |
|---|------------------|-------------------------|---|--|
| Condition | Percent/Acrea | ge | | FFW COW COW COW COW COW COW COW COW COW CO |
| → ← | | Depressional | * For plant species see delineation data steet. | |
| ## | 100 | Slope Low Gradual | | |
| $\leftarrow \downarrow \rightarrow$ | _ | Extensive Peatland | | |
| | | Lacustrine Fringe | | |
| <u>•••</u> | 1 | Riverine | | |
| 4 | VEGETATION TYPES | V | | |
| Туре | Percent/Acreage | | | |
| Forested Wetland Evergreen Needle-leaved Deciduous Broad-leaved Needle-leaved Scrub Shrub Evergreen Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Deciduous Broad-leaved Needle-leaved Needle-leaved Emergent Wetland Persistent Non-persistent Aquatic Bed | 30 50 | GEOLOGY Surficial: T.U. | OW Obligate Wetland FW Facultative Wetland F Facultative FU Facultative Upland OU Obligate Upland DOM Dominant | COM Common OCC Occasional C Canopy S Sapling TS Tall Shrub H Herb |
| Comments: | | and sand stone | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetland | Documented habitat for state or federal listed species Regionally scarce wetland category Historic/archaeologic area |

WETLAND INVENTORY DATA (continued)

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Relative Proportions: Number of Types Evenness of Distribution |
|---|---|--|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Pourly Developed <15 cm Absent Inlet/Outlet Class: | Actual # Even Distribution Actual # Even Distribution Moderately Even Distribution Highly Uneven Distribution |
| Wetland Juxiaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Intermittent Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Nested Piezometer Data: Recharge Discharge Horizontal Flow Not Available Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez Surfaco Above or at Substrate clev. Piez Surfaco below Substrate clev. Not Available Evidence of Sedimentation: No Evidence Observed Sodiment Observed on Wetland Substrate Fluvaquent Soils Evidence of Seeps and Springs: | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers % Cover 6 or > (actual #) 1. submergents: 1 |
| Low Fluctuation Never inundated Frequency of Overbank Flooding: | No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled Proportion of Aprimal Food Plants: |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) Medium (25-30% cover) |
| pH: | Histosol: Fibric Hemic Sapric | Tfigh (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) |
| Welland Land Use: | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratlo of Wetland Area to Watershed Area: | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Sevyral to Many Oyce or Few hasent |
| ☐ High >10% ■ Low <10% | | |

WETLAND INVENTORY DATA

| Project Number: _ | Concord | | _ Da | ite: 12/3 | 104 | |
|------------------------------|------------------|---------------------------------|------|---|-------------------------------|--|
| Wetland Number: | · W-72 | | | | | |
| CONTRACTOR CONTRACTOR | ers: Transect | าว.ไ | | | | |
| | | 199-1 | - | | | |
| USGS Quadrangle: | | Access | 1 | 110 | | |
| Field Investigators: | William K | enny Associa | 1.02 | LLC | | |
| | | | | | | |
| | PART 1 | - CHARACTER | IZA | TION of WETLA | ND | |
| SURFAC | CE WATER FLOW VI | ECTORS | | PLA | NT SPECIES | |
| Condition | Percent/Acrea | ge | | | PW PFW OU | C C C C C C C C C C C C C C C C C C C |
| → <u>/</u> ← | | Depressional | | plant species see neather darksheet | | |
| *** | 100 | Slope - Low Grad. | | | | |
| 4 | | 1 rat | | | | |
| <> | (| Extensive Peatland | - | | | |
| 1 | | | | | | |
| | | Lacustrine | _ | | | |
| | - | Fringe | | | | |
| (A) | ¥ | Riverine | - | | _ 000000 | |
| 2 | | | | | | |
| | urary man man | | | | | |
| | VEGETATION TYPE | | | | | |
| Туре | Percent/Acreage | | | | | |
| Forested Wetland | | SOIL TYPES | _ | | | |
| Evergreen Needle-leaved | 15 | Histosol • Fibric | | | . 000000 | 000000 |
| Deciduous Broad-leaved | | • Hemic | - | | | |
| Needle-leaved | | • Sapric | | | | |
| Scrub Shrub | | Mineral Hydric Soil | _ | | . 000000 | |
| Evergreen Broad-leaved | 15 | • Gravelly [| | | . 000000 | |
| Needle-leaved | | • Sandy • Silty | | | | |
| Deciduous Broad-leaved | 70 | · Clayey | | | . 000000 | |
| Needle-leaved | | | ow | Obligate Wetland | | OM Common CC Occasional |
| Emergent Wetland | | GEOLOGY | FW | Facultative Wetland Facultative | c | |
| Persistent Non-persistent | | Surficial: Till | FU | Facultative Upland | S T | |
| Aquatic Bed | | | DOM | Obligate Upland Dominant | L | S Low Shrub |
| | | Bedrock: Shale | | | Н | Herb |
| l'otal | | Bedrock: Shale and Sandstone | | | TIVE STATUS | |
| Comments: | | | | Public ownership Wildlife management area Fisheries management area Designated State or Federal protected wetl: | state speci Regic wetls Histo | mented habitat for or federal listed es onally scarce and category ric/archaeologic |

WETLAND INVENTORY DATA (continued)

| LANDSCAPE VARIABLES Size: Small (<10 acres) | Microrellel of Wetland Surface: Pronounced >45 cm Well Developed 15-45 cm | Number of Types & Relative Proportions: Number of Types Evermess of Distribution Acrual # Ever Distribution |
|---|--|---|
| Medium (10-100 acres) Large (>100 acres) | Poorly Developed <15 cm Absent Inlet/Outlet Class: | Moderately Even Distribution Highly Uneven Distribution |
| Wetland Juxtaposition: Connected Upstream and Downstream Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Sporadic Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized | No Inlet/No Cutlet No Inlet/Intermittent Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Nested Plezometer Data: Recharge Discharge Not Available Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface: Piez. Surface Above or at Substrate clev. Piez, Surface below Substrate clev. Not Available Evidence of Sedimentation: | Vegetation Density/Dominance: Sparse |
| HYDROLOGIC VARIABLES | No Evidence Observed Sediment Observed on Wetland Substrate | 9. sapling: (10) tree: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Fluvaquent Soils Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High S or more plots sampled |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: |
| Return Interval 1-2 yrs. No Overbank Flooding pH: Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial THI Wetland Land Use: | Soil Lacking: Histosol: Fibric Hemic Sapric Mineral Hydric Soil: Gravelly Sandy Silty Clayey | Low (5/25% cover) Medium (25-50% cover) High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) |
| ☐ High Intensity (le. agriculture) ☐ Moderate Intensity (le. forestry) | VEGETATION VARIABLES | Interspersion of Cover and Open Water: |
| Low Intensity (Ie. open space) Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonslly Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Vegetation Lacking: Dominant Weiland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity:/ Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Atsent |



| | | | | | | | | | | | | | | | | L | _ | |
|--|---|---|--------------|---|--|-------|-------------------|------------|----------|-------------|--------------|----------------|-------|----------|----------------|-----------|----------|------------------------------|
| -(| -61 | N | TRS | SHD/SUB | SHD: | | | | | | DATI | : 11 | 13 | 10 | As | SESS | MAN | |
| :5" | - 7.7 | AM/E | ~ | LM | K: | L | ND AT ESCRI | 0 | _ | | : | _AM/I | | , | MK: _ | | " | GPS ID: |
| | | y rain | | □ Trac | dy rain | PRE | | CON | DITIO | NS | | leavy Frace | rain | | eady ra | | | rmittent tly cloudy |
| - | | dustr olf co | | | ommercia rk | | | /Resi | dentia | | Subi Past | | Res | Fo | rested her: | | □ Insti | tutional |
| ITI | LIOI | NS (cl | heck | applical | ole) | | | 1 | REAC | H SI | CETC | H ANI | STI | E IM | ACT | ΓRA | CKIN | G |
| 25% -50 | 50 % | 0 | | | | S | | n the | survey | reac | h (OT | ER, IE | S,SC, | UT, TR | MI) as | wel | | l site impacts additional |
| chec | olore | Turt | oid (| paque son | ne 🗆 lots | 100 | was | h | Sell alo | φ, ς | $\bigg)$ | | | (| \ | \ | | |
| lence | ice o | | aver | 17.0 | e 🗆 lots Deer | - u | lier-d | | 1") | 1 | | | | | | | | |
| alfv artia | fway ially | (≥50 | 0%) led (| (>25%) | | | | | | 1 | 11 | | | | 1 | / | | |
| Wide Icac | den adcı grac | cutting ing utting ling eposit | | □B □B □S | ed scour ank failure ank scour lope failur hannelizee | 2 | y. | ISPE 11 | 1.5/ | | | | | C |) (0.1 | | | 7 |
| cht: | R' B | Γ ban Τ ban ottom | k | 10 10 30 35 | (ft (ft | - ma, | | | | | small C | don C | 0 | 20 | | 11: | 1/1 t | |
| 707 30 | 30000 | SSIBI | _ | | | 100 | | | 1 | | | (| ۵ | | | | | |
| oped ent to s rec al or caped oile a or dis | equir or im ped a e area dista | ea ream. res tree pact to reas. | | wetland, s sensitive a stream. F stockpile a and/or loc distance f Specialize | ated a great rom stream. | 0 | | | | | (| hal | t re | (| \ | | | |
| ent los receptors al or district distri | to st equir or im ped a area dista | ream. res tree pact to reas. as | 2 | sensitive a stream. F stockpile a and/or loc distance f Specialize equipmen | areas to get few areas to available ated a great from stream. and heavy | 0 | | | 1 | | | (| chal | chalt rd | chold rd | chalif rd | chold rd | chalit rd |

| | Optimal | Suboptimal | Marginal | Poor | | | |
|---|---|--|---|---|--|--|--|
| IN-STREAM HABITAT (May modify criteria based on appropriate habitat regime) | Greater than 70% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are <u>not</u> new fall and <u>not</u> transient). | 40-70% mix of stable habitat; well- suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale). | 20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed. | Less than 20% stable habitat; lack of habitat is obvious; substrate unstable or lacking. | | | |
| | 20 19 18 17 16 | 15 14 13 12 11 | 6 9 8 7 6 | 5 4 3 2 1 0 | | | |
| VEGETATIVE PROTECTION (score each bank, determine sides by facing downstream) | More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally. | 70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining. | 50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining. | Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height. | | | |
| | Left Bank 10 9 | 8 7 6 | (5) 4 3 | 2 1 0 | | | |
| | Right Bank 10 9 | 8 7 6 | (5) 4 3 | 2 1 0 | | | |
| BANK EROSION (facing downstream) | Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected. | Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use. | Past downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure | Active downcutting; tall banks on both sides of the stream eroding a a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure. | | | |
| | Left Bank 10 9 | 8 (7) 6 | 5 4 3 | 2 1 0 | | | |
| | Right Bank 10 9 | 8 6 6 | 5 4 3 | 2 1 0 | | | |
| FLOODPLAIN CONNECTION | High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched. | High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched. | High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched. | High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched. | | | |
| | 20 19 18 17 16 | (5) 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 | | | |
| | OVER | ALL BUFFER AND FLOODPLA | IN CONDITION | | | | |
| | Optimal | Suboptimal | Marginal | Poor | | | |
| VEGETATED BUFFER WIDTH | Width of buffer zone >50 feet; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, crops) have not impacted zone. | Width of buffer zone 25-50 feet; human activities have impacted zone only minimally. | Width of buffer zone 10-25 feet; human activities have impacted zone a great deal. | Width of buffer zone <10 leet: littl or no riparian vegetation due to human activities. | | | |
| | Left Bank 10 9 | 8 7 6 | 5 4 3 | 2 1 0 | | | |
| | Right Bank 10 9 | 8 7 (6) | 5 4 3 | 2 1 0 | | | |
| FLOODPLAIN VEGETATION | Predominant floodplain vegetation type is mature forest | Predominant floodplain vegetation type is young forest | Predominant floodplain vegetation type is shrub or old field | Predominant floodplain vegetatio type is turf or crop land | | | |
| | 20 19 18 17 16 | 15 14 13 12 (11) | 10 9 8 7 6 | 5 4 3 2 1 0 | | | |
| FLOODPLAIN HABITAT | Even mix of wetland and non-wetland habitats, evidence of standing/ponded water | Even mix of wetland and non-wetland habitats, no evidence of standing/ponded water | Either all welland or all non- welland habitat, evidence of standing/ponded water | Either all wetland or all non- wetland habitat, no evidence of standing/ponded water | | | |
| | 20 19 18 17 16 | 15 14 (13) 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 | | | |
| FLOODPLAIN ENCROACH- MENT | No evidence of floodplain encroachment in the form of fill material, land development, or manmade structures | Minor floodplain encroachment in the form of fill material, land development, or manmade structures, but not effecting floodplain function | Moderate floodplain encroachment in the form of filling, land development, or manmade structures, some effect on floodplain function | Significant floodplain encroachment (i.e. fill material, land development, or man-made structures). Significant effect on floodplain function | | | |
| | 20 19 18 17 16 | 15 14 13 12 11 | 60 9 8 7 6 | 5 4 3 2 1 0 | | | |



REPORTED TO AUTHORITIES YES NO

| SURVEY REACH I | D: | WTRSHD/SUBSHD: | KC 007 6C | DATE:/_ | _/ | ASSESSED BY: | |
|---|---|--|----------------------------------|---|----------------|---------------------------------|----------------------|
| START TIMI LAT_ °' DESCRIPTION: | E::AM LON | /PM LMK: | END TIME: LAT DESCRIPTION: | AM/PM | LM o | K: | GPS 1D: |
| RAIN IN LAST 24 HO | urs Heavy r | | PRESENT CONDITION ☐ Clear | NS ☐ Heavy rain ☐ Trace | ☐ Stea | dy rain □ Inter reast □ Pari | mittent ly cloudy |
| SURROUNDING LANI | USE: Indus | strial | ial ☐ Urban/Residentia ☐ Crop | I □ Suburban/Res □ Pasture | ☐ Fore: ☐ Othe | | tutional |
| AVERAGE | CONDITIONS | (check applicable) | REAC | H SKETCH AND SI | те Імра | CT TRACKING | 3 |
| BASE FLOW AS % CHANNEL WIDTH | □ 0-25% □25-50 % | □ 50%-75% □ 75-100% | within the survey | ch of survey reach. Tre reach (OT, ER, IB,SC, es deemed appropriate | . UT. TR. A | II) as well as any | additional |
| DOMINANT SUBSTR Silt/clay (fine or Sand (gritty) Gravel (0.1-2.5 | slick) [| ☐ Cobble (2.5 –10") ☐ Boulder (>10") ☐ Bed rock | | | | | |
| WATER CLARITY ☐ Stained (clear, n ☐ Other (chemicals, | aturally colored) | nrbid (suspended matter) ☐ Opaque (milky) | | \ | / | | |
| AQUATIC PLANTS IN STREAM | | none □ some □ lo | | 1 3 | 1 | | |
| WILDLIFE IN OR AROUND STREAM | (Evidence of) □ Fish □ I □ Snails □ (| Beaver □ Deer Other: | | a | |) | |
| STREAM SHADING (water surface) | ☐ Halfway (≥ | aded (≥25%) | Law. | , | | hour. | 4 |
| CHANNEL DYNAMICS Unknown | Downcutt Widening Headcutti Aggrading Sed. depo | Bank failu Bank scou Blope failu | ire ir ire | • | | 1000 | |
| CHANNEL DIMENSIONS (FACING DOWNSTREAM) | Height: LT b RT b Width: Botto | ank 2 (| (ft) (ft) (ft) | } | | | |
| J | REACH ACCESS | | | | 1 | | |
| Good: Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails. | Fair: Forested or developed area adjacent to streat Access requires temoval or impact landscaped areas Stockpile areas small or distant fr stream. | wetland, steep slope sensitive areas to ge stream. Few areas to stockpile available and/or located a gre distance from stream om Specialized heavy equipment required. | e, or et to to n. | | | | |
| easy stream channel access for heavy equipment using existing roads or trails. | Stockpile areas small or distant fr stream. | s. and/or located a gre- distance from stream om Specialized heavy equipment required. | п. | | \ | | |

| | Optimal | Suboptimal | Marginal | Poor |
|--|---|--|---|---|
| IN-STREAM HABITAT (May modify criteria based on appropriate habitat regime) | Greater than 70% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are <u>not</u> new fall and <u>not</u> transient). | 40-70% mix of stable habitat; well- suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale). | 20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed. | Less than 20% stable habitat; lack of habitat is obvious; substrate unstable or lacking. |
| | 20 19 18 17 16 | 15 14 13 12 11 | (0) 9 8 7 6 | 5 4 3 2 1 0 |
| VEGETATIVE PROTECTION (score each bank, determine sides by facing downstream) | More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally. | 70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining. | 50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining. | Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height. |
| | Left Bank 10 9 | 8 7 6 | 3 4 3 | 2 1 0 |
| | Right Bank 10 9 | 8 7 6 | (5) 4 3 | 2 1 0 |
| BANK EROSION (facing downstream) Banks stable; evidence of erosion or bank failure absent or minima little potential for future problem <5% of bank affected. | | Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use. | Past downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure | Active downcutting; tall banks on both sides of the stream eroding a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to properly or infrastructure. |
| | Left Bank 10 9 | 8) 7 6 | 5 4 3 | 2 1 0 |
| | Right Bank 10 9 | 8 7 6 | 5 4 3 | 2 1 0 |
| FLOODPLAIN CONNECTION High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched. | | High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched. | High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched. | High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched. |
| | (20) 19 18 17 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 |
| | | ALL BUFFER AND FLOODPLA | IN CONDITION | |
| | Optimal | Suboptimal | Marginal | Poor |
| VEGETATED BUFFER WIDTH | Width of buffer zone >50 feet; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, crops) have not impacted zone. | Width of buffer zone 25-50 feet; human activities have impacted zone only minimally. | Width of buffer zone 10-25 feet; human activities have impacted zone a great deal. | Width of buffer zone <10 feet: litt or no riparian vegetation due to human activities. |
| | Left Bank 10 9 | 8 7 6 | 5 4 3 | 2 1 (0) |
| | Right Bank 10 9 | 8 7 6 | 5 4 3 | 2 1 0 |
| FLOODPLAIN VEGETATION | Predominant floodplain vegetation type is mature forest | Predominant floodplain vegetation type is young forest | Predominant floodplain vegetalion type is shrub or old field | Predominant floodplain vegetation type is turf or crop land |
| | 20 19 18 17 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 |
| FLOODPLAIN HABITAT | Even mix of wetland and non-wetland habitats, evidence of standing/ponded water | Even mix of wetland and non-wetland habitats, no evidence of standing/ponded water | Either all wetland or all non- wetland habitat, evidence of standing/ponded water | Either all wetland or all non- wetland habitat, no evidence of standing/ponded water |
| | 20 19 18 17 16 | 15 14 13 12 11 | (10) 9 8 7 6 | 5 4 3 2 1 0 |
| FLOODPLAIN ENCROACH- MENT | No evidence of floodplain encroachment in the form of fill material, land development, or manmade structures | Minor floodplain encroachment in the form of fill material, land development, or manmade structures, but not effecting floodplain function | Moderate floodplain encroachment in the form of filling, land development, or manmade structures, some effect on floodplain function | Significant floodplain encroachment (i.e. fill material, land development, or man-made structures). Significant effect on floodplain function |
| | | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 |



REPORTED TO AUTHORITIES YES NO

| SURVEY REACH II | D: KC-N | WTRSHD/SUBSHD: | | DATE: 11 / 3 | 104 ASSE | SSED BY: | |
|---|--|---|------------------------------------|---|------------------|-------------|----------------------|
| START TIME LAT 0 1 DESCRIPTION: | :: <u>1 :03</u> AM '' LON | A/M LMK: | END TIME: LAT DESCRIPTION: | | LMK: | | GPS ID |
| RAIN IN LAST 24 HOU | URS ☐ Heavy I | | PRESENT CONDITION | NS ☐ Heavy rain ☐ Trace | ☐ Steady rain | | mittent ly cloudy |
| SURROUNDING LAND | | strial Commer Course Park | rcial ☐ Urban/Residentia ☐ Crop | I ☐ Suburban/Res ☐ Pasture | Forested Other: | □ Instit | tutional |
| AVERAGE | CONDITIONS | (check applicable) | REAC | H SKETCH AND SI | TE IMPACT TI | RACKING | |
| BASE FLOW AS % CHANNEL WIDTH | Ø0-25% □25-50 % | □ 50%-75% ∑ (75-100° | 0/2 within the survey | ch of survey reach. Tra reach (OT, ER, IB,SC, es deemed appropriate | UT, TR, MI) as y | vell as any | |
| DOMINANT SUBSTRA ☐ Sill/clay (fine or: ☐ Sand (gritty) ☐ Gravel (0.1-2.5 | slick) | Cobble (2.5 –10") ☐ Boulder (>10") ☐ Bed rock | | | | | |
| | aturally colored) | urbid (suspended matte ☐ Opaque (milky) | | | 1 | | |
| AQUATIC PLANTS IN STREAM | | none □ some □ l | | | | | |
| WILDLIFE IN OR AROUND STREAM | (Evidence of) ☐ Fish ☐ ☐ Snails ☐ | | | ristl. | e \ | | |
| STREAM SHADING (water surface) | Mostly sha | aded (≥75% coverage) ≥50%) haded (≥25%) | (ame Stones | 0 | ~ (c) | | |
| CHANNEL DYNAMICS | Downcut Widening | g Bank fai | ur ilure our | 0 | 0/ | | |
| Unknown | ☐ Aggradin☐ Sed. depo | | | 0 | OI | | |
| CHANNEL DIMENSIONS (FACING DOWNSTREAM) | Height: LT b RT b Width: Bott Top | bank 3 | _(ft) _(ft) _(ft) _(ft) | € 30' | > | | |
| I | REACH ACCESS | |) | | - 4 | | |
| Good: Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails. | Fair: Forested or developed area adjacent to strea Access requires removal or impal landscaped area Stockpile areas small or distant f stream. | wetland, steep slop sens. tree stream. Few areas ct to stockpile available as. and/or located a gi distance from stream | pe, or get to s to | (northerside | n) | | |
| 5 | 4 3 | 2 | | pur Stelling | 16 | | |

| | Optimal | Suboptimal | Marginal | Poor | |
|--|---|--|---|---|--|
| IN-STREAM HABITAT (May modify criteria based on appropriate habitat regime) | Greater than 70% of substrate favorable for epifaunal colonization and fish cover, mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are not new fall and not transient). | 40-70% mix of stable habitat; well- suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale). | 20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed. | Less than 20% stable habitat; lact of habitat is obvious; substrate unstable or lacking. | |
| | 20 19 18 17 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 | |
| VEGETATIVE PROTECTION (score each bank, determine sides by facing downstream) | More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally. | 70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining. | 50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining. | Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height. | |
| | Left Bank 0 9 | 8 7 6 | 5 4 3 | 2 1 0 | |
| | Right Bank (0) 9 | 8 7 6 | 5 4 3 | 2 1 0 | |
| BANK EROSION (facing downstream) | Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. | Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use. | Past downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure | Active downcutting; tall banks on both sides of the stream eroding a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure. | |
| | Left Bank (0) 9 | 8 7 6 | 5 4 3 | 2 1 0 | |
| | Right Bank (0) 9 | 8 7 6 | 5 4 3 | 2 1 0 | |
| FLOODPLAIN CONNECTION | High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched. | High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched. | High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched. | High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched. | |
| | (0) 19 18 17 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 | |
| | OVER | ALL BUFFER AND FLOODPLA | IN CONDITION | | |
| | Optimal | Suboptimal | Marginal | Poor | |
| VEGETATED BUFFER WIDTH | Width of buffer zone >50 feet; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, crops) have not impacted zone. | Width of buffer zone 25-50 feet; human activities have impacted zone only minimally. | Width of buffer zone 10-25 feet; human activities have impacted zone a great deal. | Width of buffer zone <10 feet: littl or no riparian vegetation due to human activities. | |
| | Left Bank (Q) 9 | 8 7 6 | 5 4 3 | 2 1 0 | |
| | Right Bank (0) 9 | 8 7 6 | 5 4 3 | 2 1 0 | |
| FLOODPLAIN VEGETATION | Predominant floodplain vegetation type is mature forest | Predominant floodplain vegetation type is young forest | Predominant floodplain vegetation type is shrub or old field | Predominant floodplain vegetation type is turf or crop land | |
| | (0) 19 18 17 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 | |
| FLOODPLAIN HABITAT | Even mix of wetland and non-wetland habitats, evidence of standing/ponded water | Even mix of wetland and non-wetland habitats, no evidence of standing/ponded water | Either all welland or all non- wetland habitat, evidence of standing/ponded water | Either all welland or all non- welland habitat, no evidence of standing/ponded water | |
| | (20) 19 18 17 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 | |
| FLOODPLAIN ENCROACH- MENT | No evidence of floodplain encroachment in the form of fill material, land development, or manmade structures | Minor floodplain encroachment in the form of fill material, land development, or manmade structures, but not effecting floodplain function | Moderate floodplain encroachment in the form of filling, land development, or manmade structures, some effect on floodplain function | Significant floodplain encroachment (i.e. fill material, land development, or man-made structures). Significant effect on floodplain function | |
| ((100)) | | | | 5 4 3 2 1 0 | |

RCH

| SURVEY REACH II |): WTRSHD/SU | BSHD: | | DATE:/ | | ASSESSED BY | |
|---|--|---|---------------------|---|-----------|--------------------------------|------------|
| START TIME LAT | : 1 : 40 AM/PM LM | MK: END LAT_ DESC | | :AM/PM'LONG | LM | K: | GPS ID |
| RAIN IN LAST 24 HOU ☐ None | URS ☑ Heavy rain ☐ Ste | AND DANCE | NT CONDITIONS | ☐ Heavy rain ☐ Trace | □ Stea | dy rain □ Inte ercast □ Par | mittent |
| SURROUNDING LAND | USE: | | | ☐ Suburban/Res☐ Pasture | IX Fore | er: freetment | Plane |
| AVERAGE | CONDITIONS (check applica | able) | REACH | SKETCH AND SIT | E IMPA | CT TRACKIN | G |
| BASE FLOW AS % CHANNEL WIDTH | | 75-100% Simp | thin the survey red | of survey reach. Trac ach (OT, ER, IB,SC, deemed appropriate. | UT. TR. I | MI) as well as any | additional |
| DOMINANT SUBSTRATE Silt/clay (fine or second second (gritty) Gravel (0.1-2.5) | slick) \square Cobble (2. \square Boulder (> | | | | / | | |
| | ☐ Clear ☐ Turbid (suspendurally colored) ☐ Opaquedyes) | | | 11 | | | |
| AQUATIC PLANTS IN STREAM | Attached: ☐ none ☐ sor | | 1 | // | | | |
| WILDLIFE IN OR AROUND STREAM | (Evidence of) ☐ Fish ☐ Beaver ☐ Snails ☐ Other: | Deer | | 1 | | | |
| STREAM SHADING (water surface) | Mostly shaded (≥75% of Halfway (≥50%) ☐ Partially shaded (≥25%) ☐ Unshaded (< 25%) |) | 2 | | | | |
| CHANNEL DYNAMICS Unknown | Widening Headcutting Aggrading | Bed scour Bank failure Bank scour Slope failure Channelized | 6 | | | | |
| CHANNEL DIMENSIONS (FACING DOWNSTREAM) | Height: LT bank RT bank Width: Bottom Top | (ft) (ft) (ft) (ft) | Rock | | | | |
| 1 | REACH ACCESSIBILITY | | | 1 1 | | | |
| Good: Open area in public ownership, sufficient room to stockpile materials, easy stream channel access for heavy equipment using existing roads or trails. | developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas distance small or distant from Speciali | t. Must cross , steep slope, or e areas to get to Few areas to e available ocated a great e from stream. ized heavy ent required. | Rocks | cidy, Rono | | | |

| | | OVERALL STREAM CONDI | | | |
|---|---|--|---|---|--|
| | Optimal | Suboptimal | Marginal | Poor | |
| AT May modify criteria based on appropriate habitat regime) | Greater than 70% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are <u>not</u> new fall and <u>not</u> transient). | 40-70% mix of stable habitat; well- suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale). | 20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed. | Less than 20% stable habitat; lact of habitat is obvious; substrate unstable or lacking. | |
| | 20 19 18 17 16 | (5) 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 | |
| VEGETATIVE PROTECTION (score each bank, determine sides by facing downstream) | More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally. | 70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining. | 50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining. | Less than 50% of the streambant surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height. | |
| | Left Bank 10 9 | 8 7 6 | 5 4 3 | 2 1 0 | |
| | Right Bank 10 9 | (8) 7 6 | 5 4 3 | 2 1 0 | |
| BANK EROSION (facing downstream) | Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. | Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use. | Past downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure | Active downcutting; tall banks on both sides of the stream eroding a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure. | |
| | Left Bank 10 9 | 8) 7 6 | 5 4 3 | 2 1 0 | |
| | Right Bank 10 9 | (8) 7 6 | 5 4 3 | 2 1 0 | |
| DPLAIN CONNECTION | High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched. | High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched. | High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched. | High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched. | |
| | 20 19 18 17 16 | 15 (4) 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 | |
| | OVER | ALL BUFFER AND FLOODPLA | IN CONDITION | | |
| | Optimal | Suboptimal | Marginal | Poor | |
| VEGETATED BUFFER WIDTH | Width of buffer zone >50 feet; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, crops) have not impacted zone. | Width of buffer zone 25-50 feet; human activities have impacted zone only minimally. | Width of buffer zone 10-25 feet; human activities have impacted zone a great deal. | Width of buffer zone <10 feet: littl or no riparian vegetation due to human activities. | |
| | Left Bank 10 9 | 8 7 6 | 5 4 3 | 2 1 0 | |
| | Right Bank 10 9 | 8 7 6 | 5 4 3 | 2 1 0 | |
| FLOODPLAIN VEGETATION | Predominant floodplain vegetation type is mature forest | Predominant floodplain vegetation type is young forest | Predominant floodplain vegetation type is shrub or old field | Predominant floodplain vegetatio type is turf or crop land | |
| | 20 19 18 17 (6) | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 | |
| FLOODPLAIN HABITAT | Even mix of wetland and non-wetland habitats, evidence of standing/ponded water | Even mix of wetland and non-wetland habitats, no evidence of standing/ponded water | Either all wetland or all non- wetland habitat, evidence of standing/ponded water | Either all wetland or all non- wetland habitat, no evidence of standing/ponded water | |
| | 20 19 18 17 16 | 15 (4) 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 | |
| FLOODPLAIN ENCROACH- | No evidence of floodplain encroachment in the form of fill material, land development, or manmade structures | Minor floodplain encroachment in the form of fill material, land development, or manmade structures, but not effecting floodplain function | Moderate floodplain encroachment in the form of filling, land development, or manmade structures, some effect on floodplain function | Significant floodplain encroachment (i.e. fill material, land development, or man-made structures). Significant effect on floodplain function | |
| | 20 19 18 17 16 | 15 14 13 12 (1) | 10 9 8 7 6 | 5 4 3 2 1 0 | |
| Sub Total In-st | 21 | tuffer/Floodplain: 56 /80 | | Reach 117 /160 | |

south of thompson nd

RCH

| SURVEY REACH II | D: 118 V | VTRSHD/SUBSHD: | | DATE:/_ | | ASSESSED BY: | |
|---|--|--|------------------------------|--|-------------|------------------|----------------------|
| LAT TIME LAT 1 DESCRIPTION: | :: 10 : 43 AQ/1 | The second secon | END TIME:_ LAT' DESCRIPTION: | :AM/PM '' Long | LMK | : | GPS ID |
| RAIN IN LAST 24 HO | URS □ Heavy rai | | PRESENT CONDITIONS | ☐ Heavy rain☐ Trace | ☐ Steady | y rain □ Inter | mittent ly cloudy |
| SURROUNDING LAND | USE: 🗆 Industr | | ☐ Urban/Residential ☐ Crop | | ► Forest | ed 🗆 Insti | tutional |
| AVERAGE | CONDITIONS (c | heck applicable) | REACH | SKETCH AND ST | TE IMPAC | T TRACKING | 3 |
| BASE FLOW AS % CHANNEL WIDTH | Ø 0-25% ? □25-50 % | □ 50%-75% ☒ 75-100% | within the survey re | of survey reach. Tra each (OT, ER, IB,SC, deemed appropriate | UT, TR, MI, |) as well as any | |
| DOMINANT SUBSTRATE Silt/clay (fine or some silt silt) Gravel (0.1-2.5) | slick) | Cobble (2.5 –10") Boulder (>10") Bed rock | , some | | . marcure u | rection by Jion | |
| WATER CLARITY ☐ Stained (clear, no | aturally colored) | oid (suspended matter) ☐ Opaque (milky) | | |) | | |
| AQUATIC PLANTS IN STREAM | | one □ some □ lots one □X some □ lots | lemna | X Sans | Low | hoilut, | |
| LDLIFE IN OR AROUND STREAM | (Evidence of) □ Fish □ Be □ Snails □ Ot | | non | 0 | BUN | | |
| STREAM SHADING (water surface) | ☐ Mostly shade ☐ Halfway (≥50 ☐ Partially shad ☐ Unshaded (< | led (≥25%) | 6 0° | (1244) | Mips | | |
| CHANNEL DYNAMICS | Downcutting Widening Headcutting | ☐ Bank failure ☐ Bank scour | Pedes | | | | |
| Unknown | ☐ Aggrading ☐ Sed. deposit | ion Slope failure Channelized | | liest | not | | |
| CHANNEL DIMENSIONS (FACING DOWNSTREAM) | Height: LT ban RT ban Width: Bottom Top | k 3 (ft) | | | | | |
| R | EACH ACCESSIBI | | 1 / | 0 | | | |
| Good: Open area in public ownership, sufficient room to stockpile materials, easy stream channel ass for heavy opment using existing roads or trails. | Fair: Forested or developed area adjacent to stream. Access requires tree removal or impact to landscaped areas. Stockpile areas small or distant from stream. | stockpile available and/or located a great distance from stream. | | Q I | | | |
| NOTES: (biggest probl | 3 lem you see in surv | 2 1 ry reach) | | | | | _ |

| | Optimal | Suboptimal | Marginal | Poor | |
|--|---|--|---|---|--|
| (May modify criteria based on appropriate habitat regime) | Greater than 70% of substrate favorable for epifaunal colonization and fish cover, mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are <u>not</u> new fall and <u>not</u> transient). | 40-70% mix of stable habitat; well- suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale). | 20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed. | Less than 20% stable habitat, lack of habitat is obvious; substrate unstable or lacking. | |
| | 20 19 18 17 16 | 15 14 13 12 11 | (0) 9 8 7 6 | 5 4 3 2 1 0 | |
| VEGETATIVE PROTECTION (score each bank, determine sides by facing downstream) | More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally. | 70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining. | 50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining. | Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height. | |
| | Left Bank 10 9 | (8) 7 6 | 5 4 3 | 2 1 0 | |
| | Right Bank 10 (9) | 8 7 6 | 5 4 3 | 2 1 0 | |
| BANK Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected. | | Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use. | Past downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure | Active downcutting; tall banks on both sides of the stream eroding a a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure. | |
| | Left Bank 10 9 | (B) 7 6 | 5 4 3 | 2 1 0 | |
| | Right Bank 10 | 8 7 6 | 5 4 3 | 2 1 0 | |
| DPLAIN CONNECTION | High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched. | High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched. | High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched. | High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched. | |
| | (20) 19 18 17 16 | 15 14 13 (2) 11 | 10 9 8 7 6 | 5 4 3 2 1 0 | |
| | OVER | ALL BUFFER AND FLOODPLAI | N CONDITION | | |
| | Optimal | Suboptimal | Marginal | Poor | |
| VEGETATED BUFFER WIDTH | Width of buffer zone >50 feet; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, crops) have not impacted zone. | Width of buffer zone 25-50 feet; human activities have impacted zone only minimally. | Width of buffer zone 10-25 feet; human activities have impacted zone a great deal. | Width of buffer zone <10 feet: little or no riparian vegetation due to human activities. | |
| | Left Bank 10 | | V/ - | 2 1 0 | |
| | Right Bank 10 9 | 8 7 6 | 5 4 3 | 2 1 0 | |
| FLOODPLAIN VEGETATION | Predominant floodplain vegetation type is mature forest | Predominant floodplain vegetation type is young forest | Predominant floodplain vegetation type is shrub or old field \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Predominant floodplain vegetation type is turf or crop land | |
| | 20 19 18 17 16 | 15 14 13 12 11 | (10) 9 8 7 6 | 5 4 3 2 1 0 | |
| FLOODPLAIN HABITAT | Even mix of wetland and non-wetland habitats, evidence of standing/ponded water | Even mix of wetland and non-wetland habitats, no evidence of and standing/ponded water | Either all wetland or all non- wetland habitat, evidence of standing/ponded water | Either all wetland or all non- wetland habitat, no evidence of standing/ponded water | |
| | 20 19 18 17 16 | (8) 14 13 (12) 11 | 10 9 8 7 6 | 5 4 3 2 1 0 | |
| FLOODPLAIN ENCROACH- | No evidence of floodplain encroachment in the form of fill material, land development, or manmade structures | Minor floodplain encroachment in the form of fill material, land development, or manmade structures, but not effecting floodplain function | Moderate floodplain encroachment in the form of filling, land development, or manmade structures, some effect on floodplain function | Significant floodplain encroachment (i.e. fill material, land development, or man-made structures). Significant effect on floodplain function | |
| | 20 19 18 17 16 | 15 14 13 (12) 11 | 10 9 8 7 6 | 5 4 3 2 1 0 | |

Reach Level Assessment Thompson ASSESSED BY: SURVEY REACH ID: WTRSHD/SUBSHD: DATE: TIME: 17 :50 AM/PA END TIME: AM/PM LMK: GPS ID: START LMK: LONG LONG LAT DESCRIPTION: DESCRIPTION: RAIN IN LAST 24 HOURS Heavy rain ☐ Steady rain PRESENT CONDITIONS ☐ Heavy rain ☐ Steady rain Intermittent ☐ Clear ☐ Trace ☐ Overcast ☐ Partly cloudy □ None ☐ Intermittent ☐ Trace □ Orban/Residential □ Suburban/Res ☐ Forested ☐ Institutional SURROUNDING LAND USE: Industrial ☐ Commercial Crop ☐ Other: ☐ Pasture Golf course Park REACH SKETCH AND SITE IMPACT TRACKING AVERAGE CONDITIONS (check applicable) Simple planar sketch of survey reach. Track locations and IDs for all site impacts □ 50%-75% BASE FLOW AS % □ 0-25% within the survey reach (OT, ER, IB,SC, UT, TR, MI) as well as any additional □25-50 % 75-100% CHANNEL WIDTH features deemed appropriate. Indicate direction of flow DOMINANT SUBSTRATE ☐ Cobble (2.5 -10") ☐ Silt/clay (fine or slick) ☐ Boulder (>10") Sand (gritty) ☐ Gravel (0.1-2.5") ☐ Bed rock WATER CLARITY Clear Turbid (suspended matter) Stained (clear, naturally colored)

Opaque (milky) ☐ Other (chemicals, dyes) Attached: ☐ none ☐ some ☐ lots AQUATIC PLANTS Sousted Floating: Prone I some I lots IN STREAM (Evidence of) WILDLIFE IN OR Deer ☐ Fish ☐ Beaver AROUND STREAM ☐ Snails ☐ Other: ☐ Mostly shaded (>75% coverage) STREAM SHADING Halfway (>50%) ☐ Partially shaded (>25%) (water surface) ☐ Unshaded (< 25%) Downcutting Bed scour CHANNEL Bank failure Widening DYNAMICS Headcutting Bank scour Slope failure Aggrading Unknown Channelized Sed. deposition Height: LT bank (ft) CHANNEL (ft) RT bank **DIMENSIONS** (FACING (ft) Width: Bottom DOWNSTREAM) 22 Top (ft) 0 REACH ACCESSIBILITY Fair: Forested or Difficult. Must cross Good: Open area in wetland, steep slope, or developed area public ownership, adjacent to stream. sensitive areas to get to sufficient room to Access requires tree stream. Few areas to stockpile materials, stockpile available removal or impact to easy stream channel and/or located a great landscaped areas. ROAD access for heavy Stockpile areas distance from stream. equipment using small or distant from Specialized heavy existing roads or trails. equipment required. stream. NOTES (biggest problem you see in survey reach) REPORTED TO AUTHORITIES YES NO

| | | OVERALL STREAM CONDI | TION | |
|---|--|--|---|---|
| | Optimal | Suboptimal | Marginal | Poor |
| (May modify criteria based on appropriate habitat regime) | Greater than 70% of substrate favorable for epifaunal colonization and fish cover; mix of snags, submerged logs, undercut banks, cobble or other stable habitat and at stage to allow full colonization potential (i.e., logs/snags that are not new fall and not transient). | 40-70% mix of stable habitat; well- suited for full colonization potential; adequate habitat for maintenance of populations; presence of additional substrate in the form of newfall, but not yet prepared for colonization (may rate at high end of scale). | 20-40% mix of stable habitat; habitat availability less than desirable; substrate frequently disturbed or removed. | Less than 20% stable habitat; lack of habitat is obvious; substrate unstable or lacking. |
| 8 | 20 (9) 18 17 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 |
| VEGETATIVE PROTECTION (score each bank, determine sides by facing downstream) | More than 90% of the streambank surfaces and immediate riparian zone covered by native vegetation, including trees, understory shrubs, or nonwoody macrophytes; vegetative disruption through grazing or mowing minimal or not evident; almost all plants allowed to grow naturally. | 70-90% of the streambank surfaces covered by native vegetation, but one class of plants is not well-represented; disruption evident but not affecting full plant growth potential to any great extent; more than one-half of the potential plant stubble height remaining. | 50-70% of the streambank surfaces covered by vegetation; disruption obvious; patches of bare soil or closely cropped vegetation common; less than one-half of the potential plant stubble height remaining. | Less than 50% of the streambank surfaces covered by vegetation; disruption of streambank vegetation is very high; vegetation has been removed to 5 centimeters or less in average stubble height. |
| | Left Bank 10 | 8 7 6 | 5 4 3 | 2 1 0 |
| | Right Bank 10 (9) | 8 7 6 | 5 4 3 | 2 1 0 |
| BANK EROSION (facing downstream) | Banks stable; evidence of erosion or bank failure absent or minimal; little potential for future problems. <5% of bank affected. | Grade and width stable; isolated areas of bank failure/erosion; likely caused by a pipe outfall, local scour, impaired riparian vegetation or adjacent use. | Past downcutting evident, active stream widening, banks actively eroding at a moderate rate; no threat to property or infrastructure | Active downcutting; tall banks on both sides of the stream eroding a a fast rate; erosion contributing significant amount of sediment to stream; obvious threat to property or infrastructure. |
| | Left Bank 10 9 | 8 7 O | 5 4 3 | 2 1 0 |
| | Right Bank 10 9 | 8 7 6 | 5 4 3 | 2 1 0 |
| DPLAIN CONNECTION | High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched. | High flows (greater than bankfull) able to enter floodplain. Stream not deeply entrenched. | High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched. | High flows (greater than bankfull) not able to enter floodplain. Stream deeply entrenched. |
| | 20 19 (8) 17 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 |
| | OVER | ALL BUFFER AND FLOODPLAI | N CONDITION | |
| | Optimal | Suboptimal | Marginal | Poor |
| VEGETATED BUFFER WIDTH | Width of buffer zone >50 feet; human activities (i.e., parking lots, roadbeds, clear-cuts, lawns, crops) have not impacted zone. | Width of buffer zone 25-50 feet; human activities have impacted zone only minimally. | Width of buffer zone 10-25 feet; human activities have impacted zone a great deal. | Width of buffer zone <10 feet: little or no riparian vegetation due to human activities. |
| | Left Bank 10 9 | 8 6) 6 | 5 4 3 | 2 1 0 |
| | Right Bank 10 9 | 8 (7) 6 | 5 4 3 | 2 1 0 |
| FLOODPLAIN VEGETATION | Predominant floodplain vegetation type is mature forest | Predominant floodplain vegetation type is young forest | Predominant floodplain vegetation type is shrub or old field | Predominant floodplain vegetation type is turf or crop land |
| | 20 19 18 17 16 | (5) 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 |
| FLOODPLAIN HABITAT | Even mix of wetland and non-wetland habitats, evidence of standing/ponded water | Even mix of welland and non-wetland habitats, no evidence of standing/ponded water | Either all wetland or all non- wetland habitat, evidence of standing/ponded water | Either all wetland or all non- wetland habitat, no evidence of standing/ponded water |
| | 20 19 (8) 17 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 |
| FLOODPLAIN ENCROACH- | No evidence of floodplain encroachment in the form of fill material, land development, or manmade structures | Minor floodplain encroachment in the form of fill material, land development, or manmade structures, but not effecting floodplain function | Moderate floodplain encroachment in the form of filling, land development, or manmade structures, some effect on floodplain function | Significant floodplain encroachment (i.e. fill material, land development, or man-made structures). Significant effect on floodplain function |
| | 20 19 18 (7) 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 0 |

| Project Number: _ | 100309 | 147 | _ Date: | 94 |
|--------------------------------|---------------------|-------------------------|--------------------------------------|---|
| Wetland Number: . | W100 - PON | D . | | |
| | | | | |
| . Photo Numb | ers: | | - | |
| USGS Quadrangle: | | | | |
| Field Investigators: | William Kenr | y Associates, | LLC | |
| | | 4,000 | | |
| | PART 1. | CHARACTER | IZATION of WETLAN | ND. |
| V-12-1 | IAMAI | CHIMACIDA | | |
| SURFAC | CE WATER FLOW VE | CTORS | PLA | NT SPECIES |
| Condition | Percent/Acreag | e | | OW FFU OU OOC COM COM OOC CC S S S S |
| 1 | | | Broad-Leaf Arrowhead | |
| | 2.000 | Depressional | Tussock Sedge | |
| 1 | | 7-3-10 | Common Bladderwart | |
| took-t | | Slope | Sphagnin | |
| TTT | | Flat | Soft rush | |
| ^ | | | Fan Wort | |
| <> | | Extensive Peatland | Floating Pond Weed | |
| 1 | | | | |
| TE | | | | |
| 知 月 | 10 - See | Lacustrine | | |
| | | Fringe | | |
| ~~ | | Riverine | - | |
| , 99 | | 431.55525 | - | |
|) | | | | |
| | VEGETATION TYPES | | | |
| Туре | Percent/Acreage | | | |
| Туре | Tercent Acreage | | - | |
| Forested Wetland | | SOIL TYPES | | |
| Evergreen | | Histosol | | |
| Needle-leaved Deciduous | | • Fibric | | |
| Broad-leaved | _3_ | • Hemic • Sapric | | |
| Needle-leaved | | - Sapric 🔲 | | |
| Scrub Shrub | | Mineral | | |
| Evergreen | | Hydric Soil • Gravelly | | |
| Broad-leaved Needle-leaved | | - Sandy | - | |
| Deciduous | | • Silty Clayey | | |
| Broad-leaved Needle-leaved | | | OW Obligate Wetland | COM Common |
| | | GEOLOGY | FW Facultative Wetland | OCC Occasional |
| Emergent Wetland Persistent | 2 | Surficial: | F Facultative FU Facultative Upland | C Canopy S Sapling |
| Non-persistent | | - Curronn | OU Obligate Upland | TS Tall Shrub |
| Aquatic Bed | 95_ | | DOM Dominant | LS Low Shrub |
| | | Bedrock: | - Value Value | H Herb |
| Total | | | PRE-EMP | TIVE STATUS |
| | · lacustrine fringe | | Public ownership Wildlife management | Documented habitat for state or federal listed |
| in the north | western portion | of the pond. | агеа | species |
| - | | | Fisheries management | Regionally scarce |
| | | | Designated State or | wetland category Historic/archaeologic |
| | | | Federal protected wetl: | |

PART 2 - CHARACTERIZATION of MODEL VARIABLES

| | Microrellel of Welland Surface: | Number of Tones & Balatte Bank |
|---|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) | Pronauged >45 cm Well Neveloped 15-45 cm Postly Developed <15 cm | Number of Types & Relative Proportions: Number of Types Evenuess of Distribution Actual Even Distribution Moderately Even Distribution |
| Large (>100 acres) | Absent | Highly Uneven Distribution |
| Wetland Juxia position: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency | Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Intermittent Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet | Vegetation Density/Déminance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) |
| ☐ Natural, Sporadic Frequency ☐ Human-caused; Predictable | Nested Piezopreter Data: | Vegetative Interspersion: |
| Rare Event No Evidence | Recharge Discharge Horizontal Flow | High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) |
| Regional Scarcity: | Not Available | Number of Layers and Percent Cover: |
| Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) | Relationship of Wellands' Substrate Elevation to Regional Plezometric Surface: | Number of Layers S. Cover 6 or > (actual #) 1. submergents: 2. floating: |
| Watershed Land Use: ☐ > 50% urbanized ☐ 25-50% urbanized ☐ 0-25% urbanized ☐ 0-25% urbanized | Piez Surface Above or at Substrate elev. Piez. Surface below Substrate elev. Not Available Evidence of Settlmentation: | 3 d. moss-lichen: 3 short herb: 2 5. tall herb: 6. dwarf shrub: |
| HYDROLOGIC VARIABLES | ☐ No Evidence Observed | 7. short shrub: 8. tall shrub: |
| Surface Water Level Fluctuation of Wetland: | Sediment Observed on Wetland Substrate Fluvaquent Soils | 9. sapling: 10. tree: |
| High Fluctuation Low Fluctuation | Evidence of Seeps and Springs: | Plant Species Diversity: |
| ☐ Never Inundated | Socia Observed Perennial Spring | ☐ Medium 3-4 plots sampled ☐ High 5 or more plots sampled |
| Frequency of Overbank Flooding: Return Interval > 5 yrs. | LZ Intermittent Spring | Proportion of Animal Food Plants: |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. | SOIL VARIABLES | Low (0-25% cover) |
| ☐ No Overbank Flooding | Soll Lacking: | Medium (25-50% cover) High (>50% cover) |
| pH: | Histosof: / | Cover Distributions |
| ☐ Cipcumneutral 5.5-7.4 ☐ Alkaline >7.4 ☐ No Water | ☐ Eibrie ☐ Hemic ☐ Sapric | Continuous Cover Small Scattered Patches |
| Surficial Geologic Deposit Under Wetland | Mineral Hydric Soil: | ☐ 1 op.More Large Patches; Paris of Site Open☐ Solitary, Scattered Stems |
| High Permeability Stratified Deposits | Sandy Silty | Dead Woody Material: Abrundant (>50 of wetland surface) |
| Wetland Land Cse: | ☐ Clayey | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) |
| ☐ High Intensity (ic. agriculture) ☐ Moderate Intensity (ic. forestry) | VEGETATION VARIABLES | Interspersion of Cover and Open Water: |
| Low Intensity (ie. open space) Wetland Water Regime! | Vegetation Lacking: □ | 26-75% Scattered or Peripheral |
| ☐ Wet: Perm Flooded, Intermittently Exposed, Soniperm. Flooded ☐ Orier: Sessonally Flooded, Temporarily Flooded, | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved | 25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: |
| Saturated Basin Topographic Gradlent: | ☐ Forested - Deciduous - Needle-leaved ☐ Scrub Shrub - Evergreen - Broad-leaved ☐ Scrub Shrub - Evergreen - Needle-leaved | Highly Copyoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) |
| ☐ High Gradient >2% ☐ Low Gradient <2% | Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved | Straight/Slightly Irreg. (index) 1.10-1.25 |
| Degree of Outlet Restriction: Restricted Outlow Unrestricted Outlow No Outlow | Emergent - Persistent Emergent - Non-persistent Aquatic Red - POND | Presence of Islands: Several to Many One or Few Absent |
| Ratio of Wetland Area to Watershed Area: | | 47.74 |
| Max Depth - 7' | | |

· Arerage Depth - 3.5'

| Project Number: . | 100309 | 45 | Date: | 4 |
|--|-------------------|--------------------|--------------------------------------|---|
| Wetland Number: | WIOI-POND | | <u> </u> | |
| Photo Numb | | | | |
| | | | | |
| USGS Quadrangle: | | Λ | (1) | |
| Field Investigators: | William Ner | my Associates | , LLC | |
| | | | | |
| | PART 1 | - CHARACTER | RIZATION of WETLAN | D |
| SURFA | CE WATER FLOW VE | CTORS | PLAN | T SPECIES |
| Condition | Percent/Acrea | ge | | OW CCOM CCOM CCOM CCOM CCC CC C |
| Ť | | | Pickleretweed | \$\$"598882" \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ |
| $\rightarrow^{\vee} \leftarrow$ | | Depressional | Coontail | |
| Î | | | | |
| ###################################### | | Slope | M 1 C 1 a / 1 0 | |
| TTT | - | Flat | * Much of upland/rooted | |
| 1 | | Part of the second | due to Beaver Dam | |
| ← → | - | Extensive Peatland | · Hemlock | |
| 1 | | | · High Bush Blueborry | |
| (2) | 100 See | | · White Pine | |
| | 100 Notes | Lacustrine | · White Birch · Bhododendron | |
| | + | Fringe | -13 hod odendron | |
| (A) | | Riverine | | |
| | | | | |
| | | | | |
| 1.7 | VEGETATION TYPES | | | |
| Туре | Percent/Acreage | | | |
| | | SOIL TYPES | | |
| Forested Wetland | | SOILTIFES | | |
| Evergreen Needle-leaved | 10 | Histosol | | |
| Deciduous | - | • Fibric 🔲 | | |
| Broad-leaved Needle-leaved | - | • Sapric | | |
| | | Mineral | | |
| Scrub Shrub Evergreen | • | Hydric Soil | | |
| Broad-leaved | | • Gravelly 🖂 | | |
| Needle-leaved Deciduous | | · Sandy | | 000000000000000000000000000000000000000 |
| Broad-leaved | | · Clayey | | |
| Needle-leaved | | | OW Obligate Wetland | COM Common |
| Emergent Wetland | | GEOLOGY | FW Facultative Wetland F Facultative | OCC Occasional C Canopy |
| Persistent | | Surficial: | FU Facultative Upland | S Sapling |
| Non-persistent | 00 | | OU Obligate Upland | TS Tall Shrub |
| Aquatic Bed | 90 | | DOM Dominant | LS Low Shrub H Herb |
| l'otal | | Bedrock: | PRE-EMPT | IVE STATUS |
| Comments: The | lacustrine fringe | surrounds | Public ownership | Documented habitat for |
| the pond. | 8 | 31.023 | Wildlife management | state or federal listed |
| | | | area Fisheries management | species |
| | | | area | Regionally scarce wetland category |
| | | | Designated State or | Historic/archaeologic |
| | | | Federal protected wetlan | d area |

PART 2 - CHARACTERIZATION of MODEL VARIABLES

| LANDSCAPE VARIABLES | Microrelief of Welland Surface: | Number of Types & Relative Proportions: Number of Types Evenness of Distribution |
|---|--|--|
| Size: Small (<10 acres) Medium (10-100 acres) | ☐ Well Developed 15-45 cm ☐ Postiy Developed <15 cm ☐ Absent | Actual # Even Distribution Moderately Even Distribution Highly Uneven Distribution |
| Large (>100 scres) | Inlet/Outlet Class: | |
| Wetland Juxiaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: | No Inlet/No Outlet No Indet/Intermittent Outlet No Indet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/No Outlet Perennial Inlet/Intermittent Outlet | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) |
| Natural; Prodictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence Regional Scarcity: | Perennial Inlet/Perennial Outlet Nested Plezometer Data: Recharge Discharge Horizontal Flow Not Available | Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: |
| Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: | Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: Piez Surface Above or at Substrate elev. | Number of Layers % Cover 6 or > (actual #) 1. submergents: 1. floating: 2. floating: 3. moss-lichen: |
| > 50% urbanized 25-50% urbanized 0-25% urbanized | Piez. Surface below Substrate elev. Not Available Evidence of Sedimentation: | 3 4. short herb: 5. tall herb: 6. dwarf shrub: 7. short shrub: |
| HYDROLOGIC VARIABLES | No Evidence Observed Sediment Observed on Wetland Substrate Nuvaquent Soils | (B) tall shrub: 9. sapling: (19) tree: |
| Surface Water Level Fluctuation of Welland: High Fluctuation Becarer Dan continues Low Fluctuation Never Inundated to raise water level Frequency of Overbank Flooding: Return Interval > 5 yrs. | Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: |
| Report Interval 1-2 yrs. No Overbank Flooding | Soil Lacking: | Medidm (25-50% cover) High (>50% cover) |
| pH: Acid <5.5 Circumneutral 5.5-7.4 Alkyrine >7.4 No Water Surficial Geologic Deposit Under Wetland | Histosol: Fibric Hemic Sapric Mineral Hadric Soil: | Cover Distribution: Continuous Cover Small Scattered Patches 1 or viore Large Patches; Parts of Site Open Solitary, Scattered Stems |
| Low Permeability Stratified Deposits High Permeability Stratified Deposits Gladial Till | Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Moderacely Abrundant (25-50% of surface) |
| Wetland Land Use: High Intensity (ic. agriculture) | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) |
| Moderate Intensity (ie. forestry) Low Intensity (ie. open space) Wetiand Water Regime? | Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral >75% Scattered or Peripheral |
| ☐ Wer Perm Flooded, Intermittently Exposed, Symiperm. Flooded ☐ Orier: Scasonally Flooded, Temporarily Flooded, Saturated | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved | |
| Basin Topographic Gradient: High Gradient > 2% Low Gradient < 2% | ☐ Scrub Shrub - Evergreen - Broad-leaved ☐ Scrub Shrub - Evergreen - Needle-leaved ☐ Scrub Shrub - Deciduous - Broad-leaved ☐ Scrub Shrub - Deciduous - Needle-leaved | Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 |
| Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow | Emergent - Persistent Emergent - Non-persistent Aquatic Bed | Presence of Islands: Several to Many One or Few Absent |
| Ratio of Wetland Area to Watershed Area: High >10% Low <10% | | |
| | | |

Max Depth - 9.0'

· Average Depth - 6'

| Project Number: | 100309 | (A) | _ Date: _ | 11/2/0 | 34 | |
|--|-------------------|---------------------|---------------|-----------------------|----------------|-----------------------|
| | WIOZ-PON | 0 | | | | |
| Photo Numb | | | | | | |
| Photo Numb | ers: | | 7 | | | |
| USGS Quadrangle: | | | | - | | |
| Field Investigators | William Ker | my Associates, | LLC | | | |
| | PART 1 | - CHARACTER | IZATION | of WETLAN | ND | |
| SURFACE WATER FLOW VECTORS | | | PLANT SPECIES | | | |
| Condition | Percent/Acrea | ige | | | . 22 | U |
| 3,110,000 | - | | 0.1 | | F.W. F.W. COM. | 000 C C C S 11S |
| 1 | | B | Sphag | - 1 1 | | |
| → ← | | Depressional | Commo | on Elodea | | |
| | | | 70 - | 10016- | | |
| ###################################### | 1 | Slope | | nsect 52.1 for | | |
| TTT | | Flat | _surround, | y regetation | | |
| 1 | | | | | | |
| $\leftarrow \rightarrow$ | | Extensive Peatland | - | * | | |
| 1 | | | | | | |
| TE | | | | | | |
| 民 月 | 100 | Lacustrine | | | . 0000000 | |
| The state of the s | | Fringe | | | | |
| | | | | | . 0000000 | |
| | | Riverine | | | . 0000000 | 000000 |
| | | | - | | | |
| | | | | | . 000000 | |
| | VEGETATION TYPE | S | | | | |
| Type | Percent/Acreage | | | | | |
| | | | - | | | |
| Forested Wetland | | SOIL TYPES | | | | |
| Evergreen | | Histosol | - | | | |
| Needle-leaved Deciduous | | • Fibric 🔲 | | | | |
| Broad-leaved | | • Hemic | | | | |
| Needle-leaved | | • Sapric | | | | 30000 |
| Scrub Shrub | | Mineral | | | 0000000 | |
| Evergreen | • | Hydric Soil | | | | |
| Broad-leaved | | • Gravelly • Sandy | | | | |
| Needle-leaved Deciduous | | • Silty 🔲 | | | | |
| Broad-leaved | 1 | · Clayey | - | | | |
| Needle-leaved | | | | ue Weiland | COM | |
| mergent Wetland | | GEOLOGY | | ative Wetland | occ | |
| Persistent | | Surficial: | F Facult | ative ative Upland | C | Canopy Sapling |
| Non-persistent | 10 | | | ne Upland | TS | Tall Shrub |
| Aquatic Bed | 90 | | DOM Domin | nant | LS | Low Shrub |
| | | Bedrock: | | | Н | Herb |
| Cotal | | 6 1300.00 | | PRE-EMP | TIVE STATUS | |
| Comments: The | lacustrine fringe | is primarily on | Pub | lic ownership | Docume | nted habitat for |
| the northern T | portion of the ox | mel. | Wil | dlife management | | federal listed |
| | | | area | | species | 11 |
| | | | Fish | neries management | | lly scarce category |
| | | | 1,17.4 | ignated State or | | archaeologic |
| | | | | eral protected wetla | | A CONTRACTOR NO. |

PART 2 - CHARACTERIZATION of MODEL VARIABLES

| LANDSCAPE VARIABLES | Micrordief of Wetland Surface: | Number of Types & Relative Proportions: |
|---|--|---|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Wetland Juxtaposition: Connected Upstram and Downstream Only Connected Below Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurrence and Frequency: Natural; Sporadic Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rate Event No Evidence Regional Scarcity: Not Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: FORMER PROPERTY HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Oyerbank Flooding: | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed 15-45 cm Poorly Developed 15-45 cm Poorly Developed 15-45 cm Poorly Developed 15-45 cm No Inlet/No Outlet No Inlet/No Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Perennial Flow Not Available Not Available Piez, Surface Above or at Substrate elev. Piez, Surface Above or at Substrate elev. Not Available Evidence of Sedimentation: No Evidence Observed Sediment Observed on Wetland Substrate Flur Aquent Soits Evidence of Serps and Springs: No Serps or Springs Seeps Observed Perennial Spring Intermittent | Number of Types Actual # Even Distribution Actual # Even Distribution Actual # Highly Uneven Distribution Actual # (20-40%) High Density (20-40%) Medium Density (40-60%) High Density (60-80%) High Density (80-100%) Vegetative Interspersion: High (sariall groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers and Percent Cover: Number of Layers and Percent Cover: A short herb: A short herb: A short herb: A short herb: A short shrub: A short shrub: A shrub: A sapling: D tree: Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled High |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Animal Food Plants: |
| Return Interval 1-2 yrs. No Overbank Flooding | Soil Lacking: | Low 15-25% cover) Medium (25-30% cover) |
| pH: Acid | Histosol: Fibric Fibric | Cover Distribution: Continuous Cover Small Scattered Patches 1 of More Large Patches; Parts of Site Open Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) Modgestely Abrundant (25-50% of surface) |
| Wetland Land (Se: | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low/Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: |
| Wetland Water Regime: Wet. Perm Flooded, Intermittently Exposed, Semperm. Flooded Difer: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Offitet Restriction: Rostricted Outflow Wrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Road-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | >75% Scattered or Peripheral 2% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 |
| □ Low <10% | | |
| Max Depth - 6' | | |
| 5 W 11 | | 7 |

. Average Depth-4'

| Project Number: . | 100309 | ** | _ Date: | 2/04 |
|--|-----------------|-------------------------|--|--|
| Wetland Number: | WIG3-PONT |) | | |
| Photo Numb | | | | |
| | | | | |
| USGS Quadrangle | | A 1 | 11.6 | 6 |
| Field Investigators | = William Ke | nny Associates, | LLC | |
| | PART | - CHARACTER | RIZATION of WETLA | ND |
| | | | 250 (10.1) | |
| | CE WATER FLOW V | | PLA | NT SPECIES |
| Condition | Percent/Acre | age | | FW FU DOW CCOM CCOM CCOM CCCOM CCCOM CCCOM CCCCOM CCCCCOM CCCCCCCC |
| 1 | | | Spatter Dock | |
| → ~ ← | | Depressional | Flashin Donal West | |
| T | | | Golf Course Turf - wester | & |
| ###################################### | | Slope | | _*0000000000000 |
| TTT | | Flat | | _ 00000000000000 |
| ^ | | | | _ 0000000000000 |
| < → | | Extensive Peatland | | |
| ↓ | | | - | |
| I | | | | |
| 知 月 | 150 | Lacustrine | | |
| | | Fringe | | |
| ~~ | | Disease | | |
| , *** | - | Riverine | | _ 000000000000 |
|) | | | - | |
| | VEGETATION TYPE | ·c | | _ 00000000000000 |
| | VEGETATION TYPE | .5 | | |
| Туре | Percent/Acreage | | - | |
| and the same of | | SOIL TYPES | | |
| Forested Wetland | | | | |
| Evergreen Needle-leaved | | Histosol | | |
| Deciduous | | • Fibric 🔲 • Hemic 🔲 | | _ 000000000000 |
| Broad-leaved Needle-leaved | - | • Hemic ☐ • Sapric ☐ | | |
| Meedle-leaved | | | | |
| Scrub Shrub | | Mineral Hydric Soil | - | |
| Evergreen | | • Gravelly | | _ 0000000000000 |
| Broad-leaved Needle-leaved | - | • Sandy 🔲 | | |
| Deciduous | _ | · Silry 🔲 | | _ 0000000000000 |
| Broad-leaved | | · Clayey 🔲 | | |
| Needle-leaved | | | OW Obligate Wetland FW Facultative Wetland | COM Common OCC Occasional |
| Emergent Wetland | | GEOLOGY | F Facultative Wetland | C Canopy |
| Persistent | | Surficial: | FU Facultative Upland | S Sapling |
| Non-persistent | 3 | | OU Obligate Upland | TS Tall Shrub |
| Aquatic Bed | 97 | 45.7 | DOM Dominant | LS Low Shrub H Herb |
| Total | | Bedrock: | PRE-EMP | PTIVE STATUS |
| | lacust C | . 11 0 | Public ownership | |
| the reduct | vendary. | s incortes on | Wildlife management | Documented habitat for state or federal listed |
| THE WESTERN DO | wrotery. | | arca | species |
| | | | Fisheries management | Regionally scarce |
| | | | Designated State or | wetland category |
| | | | Designated State or | Historic/archaeologic |

| LANDSCAPE VARIABLES Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Large (>100 acres) Wetland Juxtaposition: Connected Upstream and Downstream Only Connected Above Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Frequency Natural; Aredictable Frequency Not Sparce (>5% of total wetland area of region) Scapec (<5% of total wetland area of region) Scapec (<5% of total wetland area of region) Scapec (<5% of total wetland area of region) Watershed Land Use: >50% urbanized Golf Course Hydrologic Variables Hydr | Microrelief of Wetland Surface: Pronounced A5 cm Pootaty Developed 15-45 cm Pootaty Developed 15-45 cm Pootaty Developed c15 cm Absent No Index/No Outlet No Index/Intermittent Outlet No Index/Intermittent Outlet Intermittent Intermittent Outlet Intermittent Intermittent Outlet Perennial Intermittent Outlet Perennia | Number of Types & Relative Proportions: Number of Types Evenuess of Distribution |
|--|--|---|
|--|--|---|

| Project Number: . | 100309 | | _ Date: | 11121 | 04 | | |
|--------------------------------|------------------|------------------------|--|---|---------------------------------|-------------------------------------|---|
| Wetland Number: | Miod-LOWID | The second | _ | | | | |
| | ers: | | 24. | | | | |
| Taches Commen | | | | | | | |
| USGS Quadrangle: | | | | - | | | |
| Field Investigators | | | - | | | | |
| | PART 1 | CHARACTER | RIZATION of | WETLAN | D | | |
| SURFA | CE WATER FLOW VE | CTORS | | PLAN | T SPECIES | | |
| Condition | Percent/Acreag | e | | | ** | DOM | , |
| → | - | Depressional | Flat top astr Tussock Se Small Ducky | dese | 5 £ £ £ 8 00000 . 00000 . | | |
| todada | | Slope | Floating Pond | weed | | | |
| TTT | V- | Flat | Wester Fern | 40 | | | |
| ^ | | | Common Bla | | | | |
| <> | | Extensive Peatland | Golf Course T | urt - south/ea | | | |
| 1 | | | | | | | |
| 1 | | 4 | | | | | |
| (A) | 75 see Notes | Lacustrine | | | 00000 | | |
| | - | Fringe | | | 00000 | | |
| ~ | | Riverine | - | | | | |
| | | Mireline | | | | | |
| | | | - | | | | |
| | VEGETATION TYPES | | | | | | |
| Туре | Percent/Acreage | | | | | | |
| | | - | | | | | |
| Forested Wetland | | SOIL TYPES | | | | | |
| Evergreen | | Histosol | | | | | |
| Needle-leaved Deciduous | 7 | • Fibric 🔲 | | | | | |
| Broad-leaved | 4 | • Hemic • Sapric | | | | | |
| Needle-leaved | - | | | | | | |
| Scrub Shrub | | Mineral Hydric Soil | - | | | | |
| Evergreen Broad-leaved | · | • Gravelly | | | | | |
| Needle-leaved | | • Sandy | | | | | |
| Deciduous | | • Silty Clayey | | | | | |
| Broad-leaved Needle-leaved | - | | OW Obligate We | tland | | СОМ | Common |
| 200,000,000,000,000 | | GEOLOGY | FW Facultative | | | OCC | Occasional |
| Emergent Wetland Persistent | | Surficial: | F Facultative | Maland | | C | Canopy Sapling |
| Non-persistent | 6 | Julicial. | FU Facultative OU Obligate Up | | | TS | Tall Shrub |
| Aquatic Bed | ,90 | | DOM Dominant | | | LS | Low Shrub |
| | 3.00 | Bedrock: | | | | H | Herb |
| [otal | | 72 | | | TIVE STATUS | _ | |
| comments: The on the southern | and eastern bour | ndanies, | area Fisheries area Designate | wnership management management ed State or | sta spe Re we | te or forces gionall atland o | ted habitat for ederal listed by scarce category archaeologic |

PART 2 - CHARACTERIZATION of MODEL VARIABLES

| LANDSCAPE VARIABLES Size: | Microrellel of Wetland Surface: | Number of Types & Relative Proportions: Number of Types Evenness of Distribution | | |
|---|---|--|--|--|
| Small (<10 acres) Medium (10-100 acres) | ☐ Well Developed 15-45 cm ☐ Proving Developed <15 cm ☐ Absent | Actual # Even Distribution Moderately Even Distribution Highly Uneven Distribution | | |
| ☐ Large (>100 acres) | Inlet/Outlet Class: | 83/ | | |
| Wetland Juxtaposition: Connected Upstream and Downstream - Conhold Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural: Predictable Frequency | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Perennial Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Outlet Intermittent Outlet Perennial Inlet/No Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Outlet | Vegetation Density/Dominance: Sparse (0.20%) Low Density (20.40%) Medium Density (40.60%) High Density (60.80%) Very High Density (80.100%) | | |
| Natural: Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence | Nested Plezometer Data: + Pumpe Recharge Discharge Horizontal Flow Not Available | Vegetative Interspersion: High (small froupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: | | |
| Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) | Relationship of Wetlands' Substrate Elevation to Regional Plezometric Surface: | Number of Layers 6 or > (actual #) 13 submergents: 15 floating: 2 floating: 3. moss-lichen: | | |
| Watershed Land Use: > 50% urbanized 25.50% urbanized 0-25% urbanized (GOLS COURSE) | Piez. Sufface Above or at Substrate clev. Piez. Surface below Substrate clev. Not Available Evidence of Sediment atlon: No Evidence Observed | 3 d. short herb: 1 | | |
| HYDROLOGIC VARIABLES | ☐ Sediment Observed on Wetland Substrate | 9. sapling: 10. tree: | | |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Fluy squent Soils Evidence of Seeps and Springs: No Soeps or Springs Seeps Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled | | |
| Return/interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Aprimal Food Plants: | | |
| Refurn Interval 1-2 yrs. No Overbank Flooding | Soil Lacking: | Medium (25-50% cover) High (>50% cover) | | |
| pH: Acid <5.5 Circumneutral 5.5-7.4 No Water | Histosol: Fibric Hemic Sapric | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open | | |
| Surficial Geologic Deposit Under Wetland Low Pomeability Stratified Deposits High Termeability Stratified Deposits Glicial Till | Mineral Hydric Soil: Gravelly Syndy Silty Clayey | Dead Woody Material: Abrundant (>50 of wetland surface) Modepitely Abrundant (25-50% of surface) | | |
| Wetland Land Ese: High Intensity (ie. agriculture) | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) | | |
| Moderate Intensity (ie. forestry) Low Intensity (ie. open space) | Vegetation Lacking: | Interspersion of Cover and Open Water: 26-75% Scauered or Peripheral | | |
| Wetland Waler Regime? Wet: Perzi Flooded, Intermittently Exposed, Semiperm. Flooded Driof: Seasonally Flooded, Temporarily Flooded, Saturated | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved | <25% Scattered or Peripheral 100% Cover or Open Water Stream Sinuosity. | | |
| Basin Topographic Gradient: High Gradient >2% Lew Gradient <2% | Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved | Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 | | |
| Degree of Outlet Restriction: Restricted Outlow Unrestricted Outlow No Outlow | Emergent - Persistent Emergent - Non-persistem Aquatic Bed | Presence of Lyands: Several to Many One or Few Absent | | |
| Ratio of Weiland Area to Watershed Area: High > 10% Low < 10% | | | | |
| | | | | |

Max Depth - 5.5'
- Average Depth - 4'

| Project Number: _ | 100309 | | | 94 | |
|----------------------------|--|------------------------|--|--|--|
| Wetland Number: . | WIOS-PONT |) | - | | |
| Photo Numb | ers: | • | | | |
| | | | | | |
| USGS Quadrangle: | 1111 V | Α Ι ι , | | | |
| Field Investigators: | William Menn | y · Associates, LL | C | + | |
| | | | | | |
| | PART 1 | - CHARACTER | IZATION of WETLA | ND | |
| SURFAC | E WATER FLOW VI | ECTORS | PLANT SPECIES | | |
| Condition | Percent/Acrea | ige | | PW PW COM COOK | |
| | - | , , , | Flat top Aster | \$7"59888888 | |
| | Common de la commo | Depressional | Low Bush Blueberry | | |
| 1 | | Market Arthress | Golden Rod | | |
| ded-d- | | 21000 | Tussock Sedge | | |
| | | Slope Flat | Spatterdock | | |
| A . | 4. | 4 1415 | Small Duckwed | | |
| T | | Extensive Peatland | Water Fern | | |
| | - | | Floating Pondweed Common Elodea | | |
| ~ | | | Common Elodeer | | |
| (2) | 100 | 2000-04 | - | | |
| | 100 | Lacustrine Fringe | - | | |
| Mer | | 1111.60 | | | |
| (A) | | Riverine | | | |
| | | | | | |
| | | | | | |
| let | VEGETATION TYPE | S | | _ 00000000000000 | |
| Туре | Percent/Acreage | | | | |
| | - Control of the Cont | | | | |
| Forested Wetland | | SOIL TYPES | | | |
| Evergreen | | Histosol | | | |
| Needle-leaved Deciduous | - | • Fibric | | | |
| Broad-leaved | | • Hemic • Sapric | | | |
| Needle-leaved | | • Sapric | | | |
| Scrub Shrub | | Mineral | | | |
| Evergreen | • | Hydric Soil • Gravelly | | | |
| Broad-leaved | | • Sandy | | | |
| Needle-leaved Deciduous | | • Silty | | | |
| Broad-leaved | | · Clayey | - | | |
| Needle-leaved | | | OW Obligate Wetland FW Facultative Wetland | COM Common OCC Occasional | |
| Emergent Wetland | | GEOLOGY | FW Facultative Wetland F Facultative | C Canopy | |
| Persistent | | Surficial: | FU Facultative Upland | S Sapling | |
| Non-persistent | 5 | | OU Obligate Upland | TS Tall Shrub | |
| Aquatic Bed | .95 | N | DOM Dominant | LS Low Shrub H Herb | |
| | | Bedrock: | nne est | | |
| Total | | | | PTIVE STATUS | |
| Comments: | | | Public ownership Wildlife management | Documented habitat for state or federal listed | |
| | | | area | species | |
| | | | Fisheries management | | |
| | | | Designated State or | wetland category Historic/archaeologic | |
| | | | Federal protected wet | | |

PART 2 - CHARACTERIZATION of MODEL VARIABLES

| LANDSCAPE VARIABLES | Microrelief of Welland Surface: | Number of Types & Relative Proportions: | | |
|---|--|---|--|--|
| Sire: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Comected (Ipstream and Downstream Only Connected Above Only Connected Below Other Weitands Nearby but not Connected Wetland Isolated | Pronounced >45 cm Well Developed 15-45 cm Poorly Developed <15 cm Absent | Number of Types Evermess of Distribution Actual # Even Distribution Moderately Even Distribution Highly Uneven Distribution 2 1 Vegelation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) | | |
| Fire Occurence and Frequency: | Perennial Inlet/ Intermittent Outlet | Very High Density (80-100%) | | |
| Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Bare Event No Evidence | Perennial Inlet/Perennial Outlet Nested Piezometer Data: Recharge Discharge Horizontal Flow Not Available | Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: | | |
| Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) | Relationship of Wetlands' Substrate Elevation to Regional Piezometric Surface: | Number of Layers % Cover 6 or > (actual #) 1. submergents: 2. floating: | | |
| Watershed Land Use: > 50% urbanized 25.50% urbanized 0-25% urbanized GOLF COURSE | Picz. Surface Above or at Substrate elev. Picz. Surface below Substrate elev. Not Available Evidence of Sedimentation: | 4 3. moss-lichen: 3 4. short herb; 2 5. tail herb: 1 6. dwarf shrub: 7. short shrub: | | |
| HYDROLOGIC VARIABLES | ☐ No Evidence Observed ☐ Sediment Observed on Wetland Substrate | 8. tail shrubc 9. sapling: | | |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Fluvaquent Soils Evidence of Sceps and Springs: No Sceps or Springs Scops Observed Perennial Spring Intermittent Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled | | |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | . [] 이 시간 및 상 시간 | | |
| Rejorn Interval 1-2 yra. No Overbank Flooding | Soil Lacking: | Low (5-25% cover) Medium (25-30% cover) High (>50% cover) | | |
| pH: Acid <5.5 Circumneutral 5.5-7.4 Adkaline >7.4 No Water | Histosol: Fibric Hemic Sapric | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open | | |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High Permeability Stratified Deposits Glacial Till | Mineral Hydric Soil: Gravetly Sandy Silty | Dead Woody Material: Abrundant (>50 of wetland surface) | | |
| Wetland Land Eso: | Clayey | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) | | |
| High Intensity (ic. agriculture) Modefate Intensity (ic. forestry) | VEGETATION VARIABLES | Interspersion of Cover and Open Water: | | |
| □ Low Intensity (le. open space) Wetland Water Regime: □ Wet: Form Flooded, Intermittently Exposed, Scaptperm. Flooded □ Dyler: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: □ High Gradient > 2% | Vegetation Lacking: Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Deciduous - Broad-leaved | 26-75% Scauered or Peripheral >75% Scanered or Peripheral <25% Scanered or Peripheral 100% Cover or Open Water Stream Shuosity: | | |
| | | Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 | | |
| ☐ Low Gradient <2% Degree of Outlet Restriction: ☐ Restricted Outflow ☐ Unrestricted Outflow ☐ No Outflow | Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | Presence of Islands: Several to Many One or Few Absent | | |
| Ratio of Wedland Area to Watershed Area: High > 10% 10% 10% 10% | | | | |

Max Depth - 4'
*Average Depth - 3.5'

| Project Number: | 100309 | | Date: 11/2 | 104 |
|-------------------------------|-------------------|--------------------|--|---|
| Wetland Number: | WIOG-PONT |) | _ | |
| Photo Numb | ers: | | | |
| USGS Quadrangle: | | | | |
| | William Kenn | v. Associates L | ic | |
| Field Investigators: | - DOTH MANY TRANS | 1 /1-300/01/-/ | | |
| | PART 1 | - CHARACTEI | RIZATION of WETLA | ND |
| SURFA | CE WATER FLOW VI | ECTORS | PLA | ANT SPECIES |
| Condition | Percent/Acrea | ge | | OW FF FFU OU CCOM CCOM CCOM CCOM CCOM CCOM CCOM |
| → <u>/</u> ← | | Depressional | Small Duckweed White Pine (fringe) | - 22 22 23 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| 1 | | Slope | Golf Course Turf | |
| TTT | 5 | Flat | | |
| 1 | 0. | Extensive Peatland | | |
| | - | | - | |
| A. C. | | | - | |
| र्स मे | 90 | Lacustrine | | |
| | | Fringe | | |
| (A) | 10 | Riverine | - | |
| | | | | |
| | | | | |
| | VEGETATION TYPE | 5 | | |
| Туре | Percent/Acreage | | | |
| Forested Wetland | | SOIL TYPES | | |
| Evergreen | | Histosol | - | |
| Needle-leaved Deciduous | - | • Fibric | | |
| Broad-leaved | | • Hemic | | |
| Needle-leaved | | • Sapric | | |
| | | Mineral | | |
| Scrub Shrub Evergreen | • | Hydric Soil | | |
| Broad-leaved | | · Gravelly [| | |
| Needle-leaved | | · Sandy | | |
| Deciduous | 1 | • Silty | | |
| Broad-leaved Needle-leaved | = | | OW Obligate Wetland FW Facultative Wetland | COM Common OCC Occasional |
| Emergent Wetland | | GEOLOGY | F Facultative | C Canopy |
| Persistent Non-persistent | 10 | Surficial: | FU Facultative Upland | S Sapling |
| Aquatic Bed | .90 | | OU Obligate Upland DOM Dominant | TS Tall Shrub LS Low Shrub |
| Cotal | | Bedrock: | DDE FM | H Herb PTIVE STATUS |
| | Course L. C. | | Public ownership | |
| Comments: Golf along fringe. | Course torf and | various serges | Wildlife management | Documented habitat for state or federal listed species |
| | | | Fisheries management area Designated State or Federal protected wet | wetland category Historic/archaeologic |

| LANDSCAPE VARIABLES | Microrellef of Wetland Surface: | Number of Types & Kelative Proportions: |
|---|--|---|
| Size: Small (<10 scres) Medium (10-100 scres) Large (>100 scres) | Pronounced >45 cm Weil Peveloped 15-45 cm Poorly Developed <15 cm Koseni | Number of Types |
| Wetland Juxtaposition: Connected Upstram and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural, Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Homan-caused; Predictable Rare Event No Evidence Regional Scarcity: Not Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 60LF COURSE | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Inlet/No Outlet Intermittent Outlet Perennial Inlet/No Outlet Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Perennia | Vegetation Density/Dominance: Sperse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate Orfoken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: Number of Layers % Cover Submergents: (2) floating: (3) moss-lichen: (4) short herb; (5) tall herb: (6) dwarf shrub: (7) short shrub: (8) tall shrub: |
| HYDROLOGIC VARIABLES Surface Water Level Fluctuation of Wetland: | Sedjment Observed on Wetland Substrate Flavaquent Soils | 9. aspling: 10 tree: 12 trus Plant Species Diversity: |
| High Fluctuation Low Fluctuation Never inundated | Evidence of Seeps and Springs: No Soeps or Springs Seeps Observed Perennial Spring | Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Frequency of Overbank Flooding: Return interval > 5 yrs. | Intermittent Spring | Proportion of Animal Food Plants: |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No Overbank Flooding PH: Acid <5.5 Circumneutral 5.5-7.4 Alkeline >7.4 No Water | SOIL VARIABLES Soil Lacking: Histosol: Hemic Sapric | Low (5-25% cover) Medity (25-50% cover) High (>50% cover) Cover Distribution: Continuous Cover Small Scattered Patches 1 of More Large Patches; Parts of Site Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High fermeability Stratified Deposits Glanal Till | Mineral/Hydric Soil: Gravelly Sandy Silty | Solitary, Scattered Stems Dead Woody Material: Abrundant (>50 of wetland surface) |
| Wetland Land User | | Moderately Abrundant (25-50% of surface) Low Abrundance (0-25% of surface) |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) Low, Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | Interspersion of Cover and Open Water: |
| Wetland Water Regime: Wet: Perm Flooded, Intermittently Exposed, Semiperm. Flooded Drier: Seasonally Flooded, Temporarily Flooded, Saturated Basin Topographic Gradient: High Gradient >2% Low Gradient <2% Degree of Outlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% | Dominant Wetland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Needle-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Needle-leaved Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent Emergent - Non-persistent Aquatic Bed | 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 190% Cover or Open Water Stream Sinuosity: Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absent |

| Project Number: | 100309 | A * 1 | _ Date:1]3 | 5/04 |
|--|------------------------|-----------------------|--|--|
| Wetland Number: WIO7-POND | | | | |
| | | | - | |
| Photo Numb | ers: | | - | |
| USGS Quadrangle | | | | |
| Field Investigators | . William Kenn | y Associates, L | LC | |
| | | | and the state of the state of | AND |
| CURRA | CE WATER FLOW VE | | RIZATION of WETL | LANT SPECIES |
| | | | | |
| Condition | Percent/Acrea | ge | | OW FU OU COOM COOM COOM COOM |
| 1 | | | Mirmord Weed | |
| → <u></u> ← | | Depressional | Tussoch Scolere | |
| T | | | Small Duckweld | |
| ###################################### | - | Slope | Common Eledea | |
| 111 | | Flat | | |
| ↑ | A. | Edward A. S. | | |
| \leftarrow | | Extensive Peatland | | |
| 1 | | | | |
| 1 | 1000 | | | |
| (4) | 100 Sec | Lacustrine | | |
| The state of the s | | Fringe | | |
| 20 | | Riverine | - | |
| 1 | - | | | |
| | | | | |
| | VEGETATION TYPES | 5 | | |
| Туре | | | | |
| 11bc | Percent/Acreage | | | 0000000000000 |
| Forested Wetland | | SOIL TYPES | | |
| Evergreen | | Histosol | | |
| Needle-leaved Deciduous | | • Fibric 🔲 | | |
| Broad-leaved | | · Hemic 🔲 | | |
| Needle-leaved | | • Sapric | | |
| Scrub Shrub | | Mineral | | |
| Evergreen | | Hydric Soil Gravelly | | |
| Broad-leaved Needle-leaved | | • Sandy | | |
| Deciduous | | • Silty | | |
| Broad-leaved | | · Clayey | Am and the second | |
| Needle-leaved | | 200000000000 | OW Obligate Wetland FW Facultative Wetland | COM Common OCC Occasional |
| Emergent Wetland | | GEOLOGY | F Facultative | C Canopy |
| Persistent Non-persistent | 10 | Surficial: | FU Facultative Upland | S Sapling |
| | | | OU Obligate Upland DOM Dominant | TS Tall Shrub LS Low Shrub |
| Aquatic Bed | 90 | | DOM: Dominant | H Herb |
| Total | | Bedrock: | PRE-E | MPTIVE STATUS |
| Comments: The | lacustrine finge surre | ound the entire | Public ownership | Documented habitat fo |
| waterbody cons | isting primarily of | golf course touf. | Wildlife manageme | |
| | 0. , , | | area Fisheries manageme | species ent Regionally scarce |
| | | | area | wetland category |
| | | | Designated State or | Historic/archaeologic |
| | | | reactal projected w | (F113110) 2 co2 |

WATERCOURSE INVENTORY DATA (continued)

PART 2 - CHARACTERIZATION of MODEL VARIABLES

| LANDSCAPE VARIABLES Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Wetland Isolated Fire Occurrence and Frequency: Natural; Fredictable Frequency Natural; Sporadic Frequency Hundan-caused; Predictable Hydan-caused; Sporadic Rare Event No Evidence Regional Scarcity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) Scarce (<5% of total wetland area of region) Watershed Land Use: > 50% urbanized 25-50% urbanized 25-50% urbanized 0-25% urbanized (GOLF COURSE) HYDROLOGIC VARIABLES urface Water Level Fluctuation of Wetland: High Fluctuation Never inundated requency of Overplank Flooding: Return Interval > 5 yrs. Return Interval > 6 yrs. Return Interval + 7 yrs. Return Inter | to Regional Pleximetric Surface: Piez, Surface Above or at Substrate elev. Piez Surface below Substrate elev. Not Available Evidence of Sedimentation: No Evitence Observed Sediment Observed on Wetland Substrate Fluyaquent Soila Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Perplinial Spring Intermittent Spring SOIL VARIABLES Soil Lacking: Grayelly Sapric Mineral Hydric Soil: Grayelly Suity Clayey VEGETATION VARIABLES Vegetation Lacking: Dominant Wetland Type: Forested - Evergreen - Needle-leaved | Number of Types & Relative Proportions: Number of Types |
|--|---|---|
|--|---|---|

WATERCOURSE INVENTORY DATA

| Project Number: _ | 100309 | | Date: | 11/3 | 104 | | |
|--|----------------------|--------------------|--------------------------------------|--|-----------------------|--|----------------------------|
| Wetland Number: | WIOR-POND | | | | | | |
| | | | - | | | | |
| Photo Numb | | | - | | | | |
| USGS Quadrangle: | 1111 1/ | 1. 1 110 | | | | | |
| Field Investigators: | William Kenny | Associates, LCC | | | | | |
| | | | | | | | |
| | PART 1 | CHARACTER | IZATION of | WETLAN | ND | | |
| SURFAC | CE WATER FLOW VE | CTORS | | PLA | ST SPECIE | ES | |
| Condition | Percent/Acreag | e | | | W I'W | COM | 3 20 |
| $\rightarrow \uparrow \leftarrow$ | | Depressional | Small Duck | redge zwid | : 1000 - 1000 - | | |
| ###################################### | | Slope | | arrab | | | |
| 111 | | Flat | _Common E | lockea | | | |
| 1 | | Extensive Peatland | | | | | |
| ← _→ | | - Catalid | | | . 000 | | |
| TE | 900 | | | | | | |
| | 100 See | Lacustrine | | | | | |
| | | Fringe | | | . 000 | | |
| (A)(A) | | Riverine | - | _ | | | |
| | | | | | | | |
| | | | | | | | |
| | VEGETATION TYPES | | | - 8 | | | |
| Туре | Percent/Acreage | | | | | | |
| Forested Wetland | | SOIL TYPES | | | | | |
| Evergreen | , | Histosol | | | | | |
| Needle-leaved Deciduous | | • Fibric | | | | | |
| Broad-leaved | | • Hemic | | | | | 10000 |
| Needle-leaved | - | Mineral | | | | | |
| Scrub Shrub Evergreen | | Hydric Soil | - | | | | |
| Broad-leaved | | • Gravelly 🖂 | | | 0000 | | |
| Needle-leaved Deciduous | _ | • Silty | | | | | |
| Broad-leaved Needle-leaved | | • Clayey 🔲 | OW Obligate W | atland | | COM | Common |
| 9,750,750,750 | · | GEOLOGY | FW Facultative | | | OCC | Occasional |
| Emergent Wetland Persistent | | Surficial: | F Facultative FU Facultative | | | C | Canopy Sapling |
| Non-persistent | 10 | | OU Obligate U | | | TS | Tall Shrub |
| Aquatic Bed | 90 | | DOM Dominant | | | LS H | Low Shrub Herb |
| Total | | Bedrock: | | PRE-EMP | TIVE STA | | nicio |
| | les al | L | Dublin o | | II.E SIA | | ted habitat for |
| golf course tu | lacustrine fringe 15 | primarily | Wildlife area Fisheries area Designa | wnership management s management ted State or | | state or f species Regional wetland | ederal listed ly scarce |
| | | - | | ted State or protected wetla | nd | Historic/s | rchaeologic |

WATERCOURSE INVENTORY DATA (continued)

PART 2 - CHARACTERIZATION of MODEL VARIABLES

WATERCOURSE INVENTORY DATA

| Project Number: _ | 100309 | 5.47 | | 4 |
|--|-------------------|---------------------|---|---|
| Wetland Number: | WIOG-POND | | | |
| | | | | |
| Photo Numb | | | | |
| USGS Quadrangle: | | A 1 11 | | |
| Field Investigators: | William Kenny | Associates, LL | .C | |
| | PART 1 | CHARACTER | IZATION of WETLAN | ND |
| SURFA | CE WATER FLOW VE | ctors | PLAN | ST SPECIES |
| Condition | Percent/Acreag | e | | >> _ XXV |
| → | | Depressional | Floating Pond Weed Tussoch Sedge | - 22 0000000000000000000000000000000000 |
| Ť | | | SazoPond Weed | |
| ###################################### | (| Slope | | |
| * * * | | Flat | | |
| 1 | | Extensive Peatland | | |
| $\leftarrow \rightarrow$ | - | CARCIDIVE I Catland | | |
| V | | | | |
| | 100 pares | Lacustrine | | |
| | 100 | Fringe | | |
| | | | | |
| | | Riverine | | |
| | | | | |
| | VEGETATION TYPES | | | |
| Туре | Percent/Acreage | | | |
| | 1 | SOIL TYPES | | |
| Forested Wetland Evergreen | 1 | JOID TITES | | |
| Needle-leaved | | Histosol • Fibric | | |
| Deciduous Broad-leaved | | • Hemic | - | |
| Needle-leaved | | • Sapric | | |
| Scrub Shrub | | Mineral | | |
| Evergreen | • | Hydric Soil | | 00000000000000000 |
| Broad-leaved Needle-leaved | | • Gravelly 🖂 | | |
| Deciduous | | • Silty | | |
| Broad-leaved Needle-leaved | | • Clayey | 077 017 77 1 1 | COM Common |
| Meedle-leaved | | onet con | OW Obligate Wetland FW Facultative Wetland | OCC Occasional |
| Emergent Wetland Persistent | | GEOLOGY | F Facultative | C Canopy |
| Non-persistent | 10 | Surficial: | FU Facultative Upland OU Obligate Upland | S Sapling TS Tall Shrub |
| Aquatic Bed | ·90. | | DOM Dominant | LS Low Shrub H Herb |
| Total | | Bedrock: | PRE-EMP | TIVE STATUS |
| | custome fringe is | rime I | Public ownership | Documented habitat for |
| golf course to | rt. | , ilucall | Wildlife management area Fisheries management | state or federal listed species Regionally scarce |
| | | | area Designated State or | wetland category Historic/archaeologic |

WATERCOURSE INVENTORY DATA (continued)

PART 2 - CHARACTERIZATION of MODEL VARIABLES

| LANDSCAPE VARIABLES | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: Number of Types Evenness of Distribution |
|---|---|---|
| Size: Small (<10 acres) Medium (10-100 acres) Large (>100 acres) | Pronounced >45 cm Well Developed 15-45 cm Proofly Developed <15 cm Aprent Inlet/Outlet Class: | Actual # Even Distribution 5 Moderately Even Distribution Highly Places Distribution |
| Wetland Juxiaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated | No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Peremial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) |
| Fire Occurence and Frequency: Natural; Predictable Frequency Natural; Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence | Perennial Inlet/No Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet Nested Plezometer Data: Recharge Discharge Morizontal Flow | High Density (60-80%) Very High Density (80-100%) Vegetative Interspersion: High (small groupings, diverse and interspersed) Moderate (broken irregular rings) Low (large patches, concentric rings) |
| Regional Scapeity: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) | Relationship of Wetlands' Substrate Elevation to Regional Plexometric Surface: | Number of Layers and Percent Cover: Number of Layers |
| Watershed Land Use: □ > 50% urbanized □ 25-50% urbanized □ 0-25% urbanized (COJF COURSE) | Piez. Sarface Above or at Substrate elev. Piez Surface below Substrate elev. Not Available Evidence of Segumentation: | 3 4. short herb: 2 5. tall herb: 6. dwarf shrub: 7. short shrub: |
| HYDROLOGIC VARIABLES | ☐ No Eyidence Observed ☐ Sedjment Observed on Wetland Substrate | 8. tall shrub: 9. sapling: |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated Frequency of Overbank Flooding: | Flavaquent Soils Evidence of Soeps and Springs: No Seeps or Springs Seeps Observed Perennial Spring | Plant Species Diversity: Low 1-2 plots sampled Medium 3-4 plots sampled High 5 or more plots sampled |
| Return Interval > 5 yrs. | Intermittent Spring | Proportion of Adimal Food Plants: |
| Return Interval 2-5 yrs. Return Interval 1-2 yrs. No overbank Flooding | SOIL VARIABLES Soil Lacking: | Low (5-25% cover) Medium (25-50% cover) High (>50% cover) |
| oH: Acid <5.5 Circumneutral 5.5-7.4 Alkaline >7.4 No Water Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits | Histosol: Fibric Hemic Sapric Mineral Hydric Soil: | Cover Distribution: Continuous Cover Small Scattered Patches 1 or More Large Patches; Parts of Site Open Splitary, Scattered Stems Dead Woody Material: |
| High/Permeability Stratified Deposits Glocial Till Vetland Land/Use: | Sindy Silty Clayey | Abrundant (>50 of weiland surface) Moderately Abrundant (25-50% of surface) |
| High Intensity (ic. sgriculture) Moderate Intensity (ic. forestry) Loy Intensity (ie. open space) | VEGETATION VARIABLES Vegetation Lacking: | Low Abrundance (0-25% of surface) Interspersion of Cover and Open Water: |
| Weiland Water Regime: Wet: Penn Flooded, Intermittently Exposed, Semiporm. Flooded Drieg/ Seasonally Flooded, Temporarily Flooded, Saturated | Dominant Welland Type: Forested - Evergreen - Needle-leaved Forested - Deciduous - Broad-leaved Forested - Deciduous - Needle-leaved | 26-75% Scattered or Peripheral >75% Scattered or Peripheral 25% Scattered or Peripheral 100% Cover or Open Water Stream Simuosity: |
| asin Topographic Gradient: High Gradient > 2% Loy Gradient < 2% | Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Beergreen - Needle-leaved Scrub Shrub - Decidrous - Broad-leaved Scrub Shrub - Decidrous - Needle-leaved | Highly Convoluted (Index 1.50 or >) Moderntely Convoluted (Index 1.25-1.50) Straight/Slightly Irreg. (Index) 1.10-1.25 |
| Degree of Outlet Restriction: Restricted Outlow Unrestricted Outlow No Outlow | ☐ Emergent - Persistent ☐ Emergent - Non-persistent ☐ Aquatic Bed | Presence of Islands: Several to Many One or Few Absent |
| Ratio of Wetland Area to Watershed Area: High > 10% Loy < 10% | | |
| lax Depth - 5' eraye Depth - 3' | | 1.0 |
| erace Depth-3' | | |

WATERCOURSE INVENTORY DATA

| Project Number: _ | 100309 | 4.5 | | loy |
|--|---------------------|------------------------|---|---|
| Wetland Number: _ | WIIO-POND | - | | |
| | | | | |
| Photo Number | ers: | | | |
| USGS Quadrangle: | 110 2 | 1 | | |
| Field Investigators: | William Kenny | Associates, Cl | -C | |
| | | | | |
| | PART 1 - | CHARACTER | IZATION of WETLAN | D |
| SURFAC | E WATER FLOW VEC | TORS | PLAN | T SPECIES |
| Condition | Percent/Acreage | | | PW P |
| → ← | - | Depressional | Tussock Sedge Spike Rush Floating Pond Weed | |
| + | | Slope | Small duck Weed | |
| **** | - | Flat | Wild Celery | |
| 1 | | | Common Bladdarwort Mermand Weed | |
| ← → | | Extensive Peatland | Hermana week | |
| 1 | | | Surrounding Poind | |
| The state of the s | 500 | | 0 | |
| (x) | 100 Sec Notes | Lacustrine | White Pine | |
| A | | Fringe | White Birch Bed Maple | |
| (A)(A) | | Riverine | Bluebeing | |
| 1 | | | Winterbury | |
| | | | Sohaamm | |
| | VEGETATION TYPES | | Golf Course Tunf | |
| Туре | Percent/Acreage | | | |
| | | nove mybro | | |
| Forested Wetland | | SOIL TYPES | | |
| Evergreen Needle-leaved | | Histosol | | |
| Deciduous | | • Fibric • Hemic | | |
| Broad-leaved | | • Hemic • Sapric | | |
| Needle-leaved | | | | |
| Scrub Shrub | | Mineral Hydric Soil | | |
| Evergreen Broad-leaved | | • Gravelly | | |
| Needle-leaved | | • Sandy 🔲 • Silty 🔲 | | |
| Deciduous Broad-leaved | 5 | · Clayey | | |
| Needle-leaved | | | OW Obligate Wetland | COM Common |
| W | | GEOLOGY | FW Facultative Wetland | OCC Occasional C Canopy |
| Emergent Wetland Persistent | | Surficial: | F Facultative FU Facultative Upland | S Sapling |
| Non-persistent | 5 | 20100000 | OU Obligate Upland | TS Tall Shrub |
| Aquatic Bed | .90 | | DOM Dominant | LS Low Shrub H Herb |
| Total | | Bedrock: | PRE-EMP | TIVE STATUS |
| Comments: The galf course to | acustrine fringe is | primorily | Public ownership Wildlife management area Fisheries management area | Documented habitat for state or federal listed species Regionally scarce wetland category |
| | | | Designated State or | Historic/archaeologic |

WATERCOURSE INVENTORY DATA (continued)

PART 2 - CHARACTERIZATION of MODEL VARIABLES

| | Microrellef of Wetland Surface: | I Was a series of the series of |
|---|---|---|
| LANDSCAPE VARIABLES | Pronounced >45 cm | Number of Types & Relative Proportions: Number of Types Evenness of Distribution |
| Size: | ☐ Well Developed 15-45 cm | Actual # Even Distribution |
| Small (<10 acres) Medium (10-100 acres) | Poorly Developed <15 cm | 5 Moderately Even Distribution Highly Uneven Distribution |
| Large (>100 acres) | Inlet/Outlet Class: | |
| Wetland Juxtaposition: | ☐ No Inlet/No Outlet | |
| Connected Upstream and Downstream | No Inlet/Intermitters Outlet | Vegetation Density/Dominance: |
| Only Connected Above Only Connected Below | ☐ No Inlet/Perennial Outlet ☐ Intermittent Inlet/No Outlet | Sparss (0-20%) |
| Other Weilands Nearby but not Connected | Intermittent Inlet/Intermittent Outlet | Low Deptity (20-40%) |
| | Intermittent Outlet/Perennial Outlet Perennial Inlet/No Outlet - PUMPS | Medium Density (40-60%) High Density (60-80%) |
| Fire Occurence and Frequency: | Perennial Inlet/Intermittent Outlet | Very High Density (80-100%) |
| Natural: Predictable Frequency Natural: Sporadic Frequency | Perennial Inlet/Perennial Outlet | Vegetative Interspersion: |
| Humayl-caused; Predictable | Nested Piezonieter Data: | High (small groupings, diverse and interspersed) |
| Human-caused; Sporadic Race Event | Recharge Discharge | Moderate (broken irregular rings) Low (large patches, concentric rings) |
| ☐ No Evidence | ☐ Morizontal Flow | |
| Regional Scarpity: | □/Not Available | Number of Layers and Percent Cover: Number of Layers & Cover |
| ☐ Not Scarce (>5% of total wetland area of region) ☐ Scarce (<5% of total wetland area of region) | Relationship of Wetlands' Substrate Elevation to Regional Pictometric Surface: | 6 or > (actual #) (1.) submergents: |
| Watershed Land Use: | Piez Surface Above or at Substrate elev. | 3. moss-lichen: |
| > 50% urbanized | ☐ Piez Surface below Substrate elev. ☐ Not Available | 2 5. tall herb: |
| D-25% urbanized (GOLF COVRSE) | Evidence of Segumentation: | 6. dwarf shrub: 7. short shrub: |
| | ☐ No Exidence Observed | 8. tall shrub: |
| HYDROLOGIC VARIABLES | Sediment Observed on Wetland Substrate | 9. sapling: 10. tree: |
| Surface Water Level Fluctuation of Welland: | | Plant Species Diversity; |
| High Fluctuation Low Fluctuation | Evidence of Seeps and Springs: No Seeps or Springs | Low 1-2 plots sampled |
| ☐ Never Inundated | ☐ Seeps Observed | ☐ Medium 3-4 plots sampled |
| Frequency of Overbank Flooding: | Intermittent Spring | ☐ High 5 or more plots sampled |
| Return Interval > 5 yrs. Return Interval 2-5 yrs. | SOIL VARIABLES | Proportion of Aprimal Food Plants: |
| Return Interval 1-2 yrs. | | Low (5/25% cover) |
| ☐ No Overbank Flooding | Soil Lacking: | Medjim (25-50% cover) High (>50% cover) |
| pH: | Histosol: | Cover Distribution: |
| ☐ Acid <5.5 ☐ Circamneutral 5.5-7.4 | ☐ Elbric | |
| Alkaline >7,4 | Hemic | Continuous Cover Small Scattered Patches |
| No Water | Sapric | 1 of More Large Patches; Parts of Site Open |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits | MIneral Hydric Soil: | Solitary, Scattered Stems |
| High Permeability Stratified Deposits | □ Sandy | Dead Woody Material: |
| Glagfat Till | Silty | Abruptiant (>50 of wetland surface) |
| Vetland Land Use: | Clayey | ☐ Moderately Abrundant (25-50% of surface) ☐ Low Abrundance (0-25% of surface) |
| High Intensity (ie. agriculture) Moderate Intensity (ie. forestry) | VEGETATION VARIABLES | Interspersion of Cover and Open Water: |
| Low Intensity (ie. open space) | Vegetation Lacking: | |
| Vetland Water Regime? | | 26-75% Scattered or Peripheral >75% Scattered or Peripheral |
| Wet: Pepts Flooded, Intermittently Exposed, | Dominant Wetland Type: | 25% Scattered or Peripheral |
| Semiporm. Flooded Drier/Seasonally Flooded, Temporarily Flooded. | ☐ Forested - Evergreen - Needle-leaved ☐ Forested - Deciduous - Broad-leaved | 7 |
| Sanyrated | ☐ Forested - Deciduous - Needle-leaved | Stream Sinuosity: |
| asin Topographic Gradient: | ☐ Scrub Shrub - Evergreen - Broad-leaved ☐ Scrub Shrub - Evergreen - Needle-leaved | Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) |
| ☐ High Gradient >2% | Scrub Shrub - Deciduous - Broad-leaved | Straight/Slightly Irreg. (index) 1.10-1.25 |
| □ Low/Gradient <2% | Scrub Shrub - Deciduous - Needle-leaved Emergent - Persistent | Presence of Islands: |
| Degree of Outlet Restriction: | Emergent - Non-persistent | Several to Many |
| Restricted Outflow Unrestricted Outflow | Aquatic Bed | One or Few |
| No Outflow Satio of Weijand Area to Watershed Area: | | |
| High >10% | | |
| □ Loy <10% | | |
| 4 | | |
| A Comment of the P | | |

Max Depth - 4.5'

Average Depth - 3.5'

WATERCOURSE INVENTORY DATA

| Project Number: _ | 100309 | | _ Da | te:1]3 0 | 4 | |
|-------------------------------|---------------------|--|---------------|--|-------------|-------------------------|
| Wetland Number: | W-111- LAKE | | - | | | |
| , Photo Numb | ers: | | - | | | |
| USGS Quadrangle: | | | | | | |
| Et. 14 Townstown | William Kenny | · Associates, LC | c. | | | |
| Field Investigators: | - VIIIII / I Corner | 2.350,000 | | | | |
| | PART 1 | - CHARACTER | RIZAT | TION of WETLAN | ND | |
| SURFACE WATER FLOW VECTORS | | | PLANT SPECIES | | | |
| Condition | Percent/Acrea | ge | | | PEW PEW OUL | S . 88_ |
| 1 | | | Co | pontail | | |
| → * ← | | Depressional | | nall duck weed | | |
| 1 | | | | nma Bladderwart | | |
| toleh | | Slope | | | | |
| TTT | - | Flat | | | | |
| Α. | - | | | | | |
| | | Extensive Peatland | | | | |
| 1 | | | _ | | | |
| ~ | | | _ | | | |
| 6 | 100 See North | Lacustrine | - | | | |
| | 100 | Fringe | - | | | |
| - Alex | | | | | | |
| \odot | - | Riverine | | The state of the s | | |
| 1 | | | | | | |
| | | | | | | |
| | VEGETATION TYPES | | | | | |
| Туре | Percent/Acreage | | | | | |
| | - | | - | | | |
| Forested Wetland | | SOIL TYPES | - | | | |
| Evergreen | | Histosol | - | | | |
| Needle-leaved Deciduous | | • Fibric 🔲 | | | | |
| Broad-leaved | 4 | • Hemic • Sapric | | | | |
| Needle-leaved | | - Sapric 📋 | | | | |
| Scrub Shrub | | Mineral | | | | |
| Evergreen | • | Hydric Soil • Gravelly | | | | |
| Broad-leaved Needle-leaved | - | · Sandy | - | | | |
| Deciduous | | · Silty | - | | | |
| Broad-leaved | | · Clayey | 200 | San John Vol | | |
| Needle-leaved | | | OW FW | Obligate Wetland Facultative Wetland | COM | Occasional |
| Emergent Wetland | | GEOLOGY | F | Facultative | C | Canopy |
| Persistent | | Surficial: | FU | Facultative Upland | S | Sapling |
| Non-persistent | 0- | | DOM | Obligate Upland Dominant | TS LS | Tall Shrub Low Shrub |
| Aquatic Bed | 95 | | DOM | Dominant | н | Herb |
| Total | | Bedrock: | | PRE-EMP | TIVE STATUS | |
| Comments: The I | acustina fringe i | es ocusonily | | Public ownership | Docume | nted habitat fo |
| | eciduous woodlane | | | Wildlife management | state or | federal listed |
| eastern partien | of the lake. | The state of the s | | area | species | 6.000.000 |
| - Francisco | | | - | Fisheries management | Regional | ly scarce category |
| | | A | | Designated State or | Historic/ | archaeologic |
| | | | | Federal protected wetla | | |

WATERCOURSE INVENTORY DATA (continued)

PART 2 - CHARACTERIZATION of MODEL VARIABLES

| LANDSCAPE VARIABLES Size: | Microrelief of Wetland Surface: | Number of Types & Relative Proportions: Number of Types Evenness of Distribution | - |
|--|---|--|----|
| Smail (<10 scres) Medium (10-100 scres) Large (>100 scres) | Well Developed 15-45 cm Poorly Developed <15 cm | Actual # Even Distribution 5 Moderately Even Distribution Highly Uneven Distribution | |
| Wetland Juxtaposition: Connected Upstream and Downstream Only Connected Above Only Connected Below Other Wetlands Nearby but not Connected Wetland Isolated Fire Occurence and Frequency: Natural; Predictable Frequency | Inlet/Outlet Class: No Inlet/No Outlet No Inlet/Intermittent Outlet No Inlet/Perennial Outlet Intermittent Inlet/No Outlet Intermittent Inlet/Intermittent Outlet Intermittent Outlet/Perennial Outlet Perennial Inlet/Intermittent Outlet Perennial Inlet/Perennial Outlet Perennial Inlet/Perennial Outlet | Vegetation Density/Dominance: Sparse (0-20%) Low Density (20-40%) Medium Density (40-60%) High Density (60-80%) Very High Density (80-100%) | |
| Natural/Sporadic Frequency Human-caused; Predictable Human-caused; Sporadic Rare Event No Evidence | Nested Piezopieter Data: Rectarge Discharge Horizontal Flow | Vegetative Interspersion: High (small proupings, diverse and interspersed Moderate (broken irregular rings) Low (large patches, concentric rings) Number of Layers and Percent Cover: | d) |
| Regional Scarcely: Not Scarce (>5% of total wetland area of region) Scarce (<5% of total wetland area of region) | Not Available Relationship of Wellands' Substrate Elevation to Regional Plezometric Surface: | Number of Layers 6 or > (setual #) 1. submergents: 1. floating: | |
| Watershed Land Use: > 50% urbanized 25-50% urbanized 0-25% urbanized - (Supply WATER) | Piez, Surface Above or at Substrate clev. Piez, Surface below Substrate clev. Not Available Evidence of Sedimentation: | 4 3. moss-lichen: 3 4. short herb: 2 5. tall herb: 1 6. dwarf shrub: 7. short shrub: | |
| HYDROLOGIC VARIABLES | ☐ No Evidence Observed ☐ Sediment Observed on Wetland Substrate ☐ Fluyaquent Soils | 8. tall shrubt 9. sapling: 10. tree: | |
| Surface Water Level Fluctuation of Wetland: High Fluctuation Low Fluctuation Never Inundated | Evidence of Seeps and Springs: No Seeps or Springs Seeps Observed Pershinal Spring | Plant Species Diversity: Low 1-2 plots sampled Medism 3-4 plots sampled High 5 or more plots sampled | |
| Frequency of Overbank Flooding: Return interval > 5 yrs. Return interval 2-5 yrs. Return interval 1-2 yrs. | SOIL VARIABLES Soil Lacking: | Proportion of Animal Food Plants: Low (5-25% cover) Medium (25-30% cover) | 4 |
| PH: Acid S.5 Circumneutral 5.5-7.4 Iklaline >7.4 No Water | Histosol: Fjoric femic Sapric | Cover Distribution: Continuous Cover Small Systemed Patches 1 or More Large Patches; Parts of Site Open | |
| Surficial Geologic Deposit Under Wetland Low Permeability Stratified Deposits High remeability Stratified Deposits Glacial Till | Mineral Hypric Soil: Gravelly Sandy Silty Glayey | Dend Woody Material: Abrundan (>50 of wetland surface) Moderajely Abrundanı (25-50% of surface) | |
| Wetland Land Use! High Injunsity (ie. agriculture) | VEGETATION VARIABLES | Low Abrundance (0-25% of surface) | |
| Moderate Intensity (ie. forestry) Loy Intensity (ie. open space) Wetland Water Regime: Wett Perm Flooded, Intermittently Exposed, Semiperm. Flooded Dier: Seasonsily Flooded, Temporarity Flooded, Saturated Sasin Topographic Gradlent: High Gradient >2% Low Gradient <2% Use Gradient <2% Degree of Oytlet Restriction: Restricted Outflow Unrestricted Outflow No Outflow No Outflow Ratio of Wetland Area to Watershed Area: High >10% Low <10% | Vegetation Lacking: Dominant Wetland Type: Forested - Evergreen - Neodie-leaved Forested - Deciduous - Broad-leaved Scrub Shrub - Evergreen - Broad-leaved Scrub Shrub - Evergreen - Neodie-leaved Scrub Shrub - Deciduous - Broad-leaved Scrub Shrub - Deciduous - Neodie-leaved Emergent - Persistent Aquatic Bed | Interspersion of Cover and Open Water: 26-75% Scattered or Peripheral >75% Scattered or Peripheral <25% Scattered or Peripheral 100% Cover or Open Water Highly Convoluted (index 1.50 or >) Moderately Convoluted (index 1.25-1.50) Straight/Slightly Irreg. (index) 1.10-1.25 Presence of Islands: Several to Many One or Few Absolut | |
| , Max Depth - > 10' | | | À |

* Average Depth - ?

Appendix F-3 Hydrogeologic Assessment

HYDROGEOLOGIC ASSESSMENT EPT CONCORD RESORT PROPERTY – SOUTHEAST REGION TOWN OF THOMPSON SULLIVAN COUNTY, NEWYORK

Prepared For:

AKRF Engineering, P.C.

May 2012

(Via Electronic Transmission)

Prepared By:

LBG Engineering Services, P.C. 4 Research Drive, Suite 301 Shelton, CT 06484

TABLE OF CONTENTS

| | Page # |
|--|--------|
| INTRODUCTION | 1 |
| HYDROGEOLOGIC SETTING | 1 |
| Surface Water Features | 2 |
| Surficial Geology | 3 |
| Bedrock Geology | 4 |
| Fracture-Trace Analysis | 4 |
| PRECIPITATION AND GROUNDWATER RECHARGE | 5 |
| Direct Recharge to the Stratified-Drift Deposits | |
| Bedrock Groundwater Recharge | 7 |
| EXISTING ONSITE WELLS | 7 |
| Active Wells | 7 |
| Inactive Wells | 9 |
| POTENTIAL AREAS OF GROUNDWATER QUALITY CONCERN | 11 |
| PROPOSED TEST WELL LOCATIONS | 13 |
| INVESTIGATIONS OF EXISTING WELLS | 14 |
| WELL TESTING AND PERMITTING | 15 |
| CONCLUSIONS | 15 |

LIST OF FIGURES (at end of report)

Figure

- 1 Site Location Map
- 2 Surficial Geology
- 3 Bedrock Geology
- 4 Photographs of Bedrock Outcrops on Study Property
- 5 Precipitation Frequency Analysis Based on Data from Rock Hill 3SW Climate Station
- 6 Photographs of Existing Wells 12 and 14 on Former Mountainview Bungalow Property, Thompsonville Road
- 7 Photographs of Existing Well 20 and Spring 2

Plate (at end of report)

Plate

1 Site Map – Existing Conditions

HYDROGEOLOGIC ASSESSMENT EPT CONCORD RESORT PROPERTY – SOUTHEAST REGION TOWN OF THOMPSON SULLIVAN COUNTY, NEWYORK

INTRODUCTION

LBG Engineering Services, P.C. (LBGES) has completed the following Hydrogeologic Assessment for the EPT Concord Resort located in the Town of Thompson, New York as one of the initial tasks in the development of the water supply for the first phase of site development. The goal of this assessment was to review the existing hydrogeologic conditions on the southeast region of the site, where the first phase of development has been proposed, to select suitable test well locations to assess groundwater availability in this region of the property.

As part of this study, LBGES reviewed published geologic and hydrogeologic maps and information for the study area, as well as in-house data records and reports provided by AKRF Engineering, P.C. (AKRF) pertaining to previous studies and well testing completed at the site. Following completion of the data review, a site visit to the property was conducted by LBGES to confirm the presence of favorable geologic features identified in the in-house data review process and to assess the suitability of the potential test well sites initially selected.

HYDROGEOLOGIC SETTING

The EPT Concord Resort site is a 1,538+ acre property located in the Town of Thompson in Sullivan County, New York (figure 1, Plate 1). The project site consists of three golf courses (one active, two inactive); support facilities for the golf course (maintenance facility, Pro Shop, modular building); a small inactive ski area; several vacant summer bungalow colonies and rental homes; and large areas of undeveloped land.

The topography at the site is variable (Plate 1). Topographic highs occur on the eastern and western portions of the site in the range of 1,460 ft msl (feet above mean sea level) to 1,560 ft msl. The highest topography occurs on the parcel located north of Kiamesha Lake Road, on the northwest corner of the property. The topographic low region of the property is the centrally located Kiamesha Creek valley, which turns east at Kiamesha Lake Road and then flows along the northeastern property line. Topographic elevations along the Creek range from

1,340 ft msl at the southern property line to 1,170 ft msl on the eastern property boundary near County Route 161.

Surface Water Features

The project site is located in the Delaware River Basin Watershed. The major surface water feature is Kiamesha Creek, which flows centrally through the property from south to north. The Creek turns to flow east at Kiamesha Lake Road and then turns southeast to flow along the northeastern property line. Kiamesha Creek receives water from two small tributary streams near the southern property boundary. Based on the New York State Department of Environmental Conservation (NYSDEC) surface water classification system, the surface water in Kiamesha Creek is Class C, which is defined as suitable for fisheries and non-contact activities, both not for use as drinking water or for contact recreation such as swimming.

Several ponds are located in the Kiamesha Creek valley in the area of the onsite golf courses. The ponds are reportedly used as the source of irrigation water for the golf courses and, when the water level in the irrigation ponds are low, water is pumped from Kiamesha Creek to fill the ponds and supplement the irrigation demand.

In addition to the ponds along Kiamesha Creek, there are two man-made ponds on the southeast region of the site along Joyland Road. These ponds appear to have been formed by damming portions of the small tributary stream which flows through this area. The ponds are both reported to be very shallow, in the range of 5 feet to 10 feet at their deepest points.

Several wetland features are also located on the study property in and near the Kiamesha Creek valley and on the east/southeastern portion of the property. The wetlands along the southern reach of Kiamesha Creek are mapped as NYSDEC regulated wetlands MO-58, MO-57 and MO-56. Activities such as drilling or construction within a NYSDEC wetlands or the 100-foot adjacent buffer area require permitting from the NYSDEC.

Wetlands that are not regulated by the NYSDEC are under the jurisdiction of the Town of Thompson (i.e., local wetlands). In either case, a permit from the Army Corp of Engineers may be needed depending on the nature and extent of the work planned in the wetlands. Wetland jurisdiction on the project site should be confirmed prior to undertaking construction and/or other activities in the existing wetland features.

Two springs were observed during the site visit conducted by LBGES. Spring #1 is located on the former Mountainville Bungalow Property that is north of Thompsonville Road (tax parcel 15-1-25) and flows from the side of the hill on that parcel. A pump house and two cisterns were observed during the site visit at the location of Spring #1. It is likely Spring #1 was used as potable water-supply source for the former bungalow colony. The spring was flowing into one of the cisterns at a rate of about 5-10 gpm (gallons per minute) at the time of the site visit.

Spring #2 is located on the former Greenburg Property (tax parcel 23-2-10) near the existing Well 18 (Plate 1). Spring #2 is a small seep which had been lined with rocks by a former property owner. Spring #2 drains into the large wetland feature on the southeastern portion of the project site.

Surficial Geology

The New York State Geological Survey, Surficial Materials Map – Lower Hudson Sheet (1997) was reviewed to identify the types of unconsolidated deposits on the property.

A stratified-drift glacial deposit, known as a kame deposit, has been mapped along the Kiamesha Creek valley. Kame deposits consist of stratified layers of silt, sand and/or gravel material. Stratified glacial deposits have potential for the development of high-yielding wells depending on the areal extent of the deposit, the saturated thickness of the deposit and the predominant grain-size within the deposit (i.e., silt versus gravel). Based on information from the NYSDEC Unconsolidated Aquifers Map (2008), the yield potential for wells drilled in the kame deposit on the property is between 10 to 100 gpm. During the site visit completed by LBGES, the Golf Maintenance Manager, Mr. Chris Hummel, stated that several borings were drilled under the supervision of C.A. Rich in 2006 on the southern portion of the property in the vicinity of the mapped kames deposits, however, records of the drilling activities were not available for review by LBGES.

The remaining area of the property is covered by glacial till. Glacial till consists of non-sorted, non-stratified sediments deposited by glacial activity. The sediments contain varying proportions of clay, silt, sand, gravel and boulders. Till is generally not suitable for public supply well development because, as a result of the unsorted character of the material, it does not

transmit water in sufficient quantities to support a well. A map of the surficial geology underlying the project site is shown in figure 2.

The thickness of the unconsolidated deposits (overburden) above bedrock is variable throughout the project site. Bedrock outcrops were observed on the northwest corner of the property, near the intersection of Concord Road and Kiamesha Lake Road and also along the access road to the Chalet/Pro Shop off of Chalet Road. However, in the absence of well or boring logs, the thickness of the overburden on the remaining areas of the property cannot be estimated.

Bedrock Geology

Based on the New York State Geological Survey, Bedrock Geology Map – Lower Hudson Sheet (1999), two sedimentary bedrock formations underlie the site: the Lower Walton Formation on the eastern region of the site; and the Upper Walton Formation to the west. The bedrock contact between the two formations runs generally southwest to northeast through the Kiamesha Creek valley in the central region of the project site. Both bedrock formations are sedimentary rock types containing layers of shale, sandstone and conglomerate. A fault line has also been mapped to the south of the project site near Route 17, however, no bedrock faults are mapped at the study property. The bedrock geology for the property and surrounding area is shown on figure 3.

As described above, bedrock outcrops were observed on the northwest corner of the property, near the intersection of Concord Road and Kiamesha Lake Road, and along the access road to the Chalet/Pro Shop off of Chalet Road during LBGES's site visit. The bedrock on the northwest corner of the project site consisted of red shale which was thinly bedded and friable. The bedrock on the access road to the Pro Shop was grey in color and more massive, however, some bedding planes were observed in this rock formation as well. Pictures of the bedrock outcrops observed on the project site are shown on figure 4.

Fracture-Trace Analysis

LBGES completed a fracture-trace analysis of the project site using the existing USGS topographic quadrangle to identify and delineate linear features that are indicative of potential faults, fracture joint systems, old river and stream courses, and major unconformities underlying the study property. These features frequently are indications of fractured or weathered zones

within the bedrock and their identification is useful for identifying major fracture conduits for groundwater recharge and in selecting favorable well sites to develop higher yield wells. The lineations represent a potential series of multiple fracture zones in the underlying bedrock which radiate in various directions both vertical and horizontal; not just a single large-scale fracture in the bedrock.

Wells placed on or near the intersection of two or more linear features generally produce higher yields, but successful results can be found along the trend of a single linear feature. It should be noted that fracture-trace analysis is a method for improving the likelihood of obtaining better-than-average well yields as compared to randomly or conveniently located wells. The assurance of obtaining a successful well located along a linear feature cannot be guaranteed.

The most prominent feature identified is the lineation along the Kiamesha Creek valley. However, several other fracture-trace lineations were identified on and near the project site which also appear suitable to target as bedrock test well locations. The fracture-trace lineations are shown on Plate 1.

PRECIPITATION AND GROUNDWATER RECHARGE

Groundwater in unconsolidated and bedrock aquifers is a renewable resource that is continually replenished by precipitation on the local watersheds. Of the precipitation which falls on a watershed, about half the amount is returned to the air through evaporation and transpiration processes; the remaining half is available to become surface-water runoff, which discharges to surface-water bodies within a watershed, and groundwater recharge to the underlying aquifers. A portion of the groundwater recharge that infiltrates the soil and overburden (unconsolidated) material eventually seeps down to recharge the bedrock fracture system and becomes available for capture by bedrock wells for water-supply use.

Reviewing the precipitation recharge estimate of a site is useful for obtaining preliminary information regarding groundwater availability, however, the drilling and testing of wells to determine the feasibility of development of groundwater sources on a property is necessary. Data collected during the completion of pumping tests on bedrock and overburden wells, specifically the demonstration of stabilized yield and water-level drawdown, is the measure by

which to gauge whether the groundwater resources of a property are capable of sustaining the proposed groundwater withdrawals.

Direct Recharge to the Stratified-Drift Deposits

The annual volume of recharge from precipitation to the unconsolidated stratified-drift aquifer depends upon several factors, including the extent of the coarse-grained materials, the annual precipitation rate, the type of surface cover present, and the topographic slope of the land surface. The estimated average recharge rate for the area ranges from 0.8 mgd/mi² (million gallon a day per square mile) to 1.1 mgd/mi² (MacNish and Randall, 1982). Recharge to the stratified-drift material at the study parcel under "normal" recharge conditions was estimated by multiplying the lateral extent of the deposits by the average recharge rate.

Precipitation is an important and the largest source of recharge to the overburden and bedrock aquifers. The quantity of recharge available to the groundwater system is dependent upon the amount of precipitation. The long-term 30-year average annual precipitation for the Rock Hill 3 SW climate station located near the EPT Concord Resort is 49.34 inches.

Based on the New York State Geological Survey, Surficial Materials Map (1997), the kame deposit underlying the EPT Concord Resort covers approximately 272 acres. Under normal precipitation conditions, recharge to this 272-acre area of stratified-drift deposits would range, on average and over the long term, from approximately 0.340 mgd to 0.468 mgd, which is equal to about 236 gpm to 325 gpm.

During drought periods, groundwater recharge and available water supply would be reduced. Using data from the Rock Hill 3 SW climate station, a precipitation probability graph was created (figure 5) to estimate the 1-year-in-30-year low precipitation (drought) for the region. Drought precipitation (one-year-in-30 event) is approximately 34.5 inches or about 70% of the average annual precipitation. Assuming groundwater recharge decreases at the same rate as precipitation during periods of diminished rainfall, the estimated average recharge rate would decrease about 30 percent to 0.248 mgd and 0.328 mgd, or about 172 gpm to 228 gpm, during a 1-year-in-30 drought.

Additional sources of recharge to stratified-drift aquifers include infiltration from surface-water bodies (i.e., stream, ponds, wetlands) and recharge from upland till and bedrock areas adjacent to the aquifer. However, because there is limited information available regarding

the aerial extent, type of material present, and the thickness of the kame deposits, only direct precipitation recharge to the stratified-drift has been reviewed in this report.

Bedrock Groundwater Recharge

According to the Water Resources Investigation Report of the U.S. Department of the Interior, Geological Survey "Ground-Water Appraisal of the Fishkill-Beacon Area, Dutchess County, New York" (Snavely, 1980), recharge to till-covered metasedimentary bedrock is approximately 400,000 gpd/sq. mi. (gallons per day per square mile), which is equal to about 8 inches annually or 625 gpd/acre (gallons per day per acre). Based on this recharge rate, the 1,538+-acre EPT Concord Resort receives about 0.961 mgd (million gallons per day) or about 668 gpm of direct precipitation recharge under average precipitation conditions to the bedrock aquifer underlying the property.

During drought periods, groundwater recharge and available water supply would be reduced. Assuming the rate of groundwater recharge also decreases by 30% during a 1-year-30 drought, the groundwater recharge to the bedrock aquifer under drought conditions would be about 0.673 mgd or about 467 gpm.

EXISTING ONSITE WELLS

Thirty-one existing wells are reported on the project site (Plate 1). Preliminary information regarding the existing wells was provided in the 2006 Hydrogeologic Evaluation report by C.A Rich. During the site visit, LBGES and Mr. Hummel located 24 of the existing wells. The wells were mainly drilled to supply the golf course facilities, former bungalow colonies, and vacant rental properties. Several test wells were also identified which were reportedly drilled as part of the previous onsite groundwater supply investigations. No well completion logs or drilling reports were available for any of the onsite wells.

Active Wells

There are two active bedrock wells which currently operate to supply water to the Golf Course Maintenance Building, Modular Building which replaced the Monster Clubhouse, and the Pro Shop/Chalet building. Well #1 is located in a well pit directly behind the Golf Course

Maintenance building. A short-term yield test completed on the well in 1999 by LBG measured the potential yield of the well at 50 gpm. A 72-hour pumping test was reportedly completed at a later date on this well which verified this yield estimate, however, the information for the 72-hour pumping test was not available for review.

Water samples for NYSDOH Part 5, subpart 5-1 analyses were collected from Well #1 in 1998 and volatile organic compound (VOC) samples were collected again in 1999 during the short-term well test. All parameters were reported to meet drinking water standards from these analyses.

The second active supply well, Well #2, is located on the west side of Kiamesha Creek near the Golf Maintenance Building. The well is completed with a stick-up casing (i.e., the casing is set above grade). The well is reported to be 423 feet deep and have a safe yield of 32 gpm. However, the well testing data for Well #2 was not available to LBGES for review to verify this reported yield information.

Bedrock Wells #1 and #2 supply water to the Golf Course Maintenance Building, the Modular Building, and the Pro Shop/Chalet building. The water from the wells receives Ultraviolet (UV) treatment at the Pro Shop/Chalet. A third well was also drilled in the vicinity of Maintenance Building, however, the yield of the well was reportedly very low and it is not currently in use.

The potential for future continued use of Wells #1 and #2 under the proposed development plan is limited. Although the yields of the wells are sufficient, the land use in the vicinity may result in regulatory (Health Department and/or NYSDEC) restriction on their continued use. The proximity of the wells to the Golf Maintenance Facility poses concern regarding current chemical (fertilizer, pesticide, herbicide) storage and gasoline/fuel underground storage tanks (USTs) usage. Additionally, soil and groundwater contamination near the Golf Maintenance Building may also be a concern based on historic spills and land use activities. Review of the locations by the regulatory agencies and possibly additional yield and/or water-quality testing may be needed to determine their potential for continued use under the new proposed development.

A third active well was located on the EPT Concord Resort during the site visit. Well #23 is currently being used to supply the one bungalow residence that remains in use on the Breezy Corners Bungalow parcel at the corner of Joyland Road and Thompsonville Road. The

well is located in a well pit adjacent to the house. The construction details for the well, such as total depth and yield, are unknown.

Inactive Wells

The remaining existing onsite wells are currently not in use. Many of the wells are located in well pits and the well pumps and appurtenance (if any are present) are old, damaged or nonfunctioning. LBGES briefly assessed the condition of the existing wells located during the site visit along with their location in regard to the proposed future test well sites. Photographs of some of the inactive wells are shown on figures 6 and 7.

Wells #3 and #4 are located west of the Golf Maintenance Building. Well #3 is located at the base of the International Golf Course Green #2 and has a stick-up casing and a well cap with an H.W. Goetz Well Drilling logo. Well #4 is a very short stick-up well with a piece of metal plate laid over top, however, the plate was not secured with any bolts. The depth of Well #4 was reported to be 530 feet by Mr. Hummel, but no well log was available. The metal plate covering the well was askew when the well was observed during the site visit, and the open borehole was exposed. Mr. Hummel reported that one or both of these wells were yield tested by Mr. Goetz approximately 6 years ago, however, the well testing data were not available for review.

Wells #6 and #8 are located in well pits next to vacant residential homes (rental properties). The wells were still equipped with pumps, but it is unknown if the pumps still function. Both homes are vacant and there is no power service to the properties. Well #7 is located on a vacant parcel on the west side of Chalet Road. The well is located in a well pit and is still equipped with a pump. The condition of the pump could not be determined. The well was formerly used to supply a mobile trailer on the parcel, but the trailer is now gone.

Wells #9, #13 and #20 are residential wells that were reported to have supplied former single-family rental property homes which have been torn down. The pumps have been removed from Wells #9 and #20. Well #13 could not be located during the site visit under the snow cover on the ground. Well #9 had a well cap, however, the cap for Well #20 was missing and the top of the well was open and exposed (figure 7).

Wells #10, #11, #12, #14 and Spring #1 were reportedly used as water-supply sources for the former Mountainville Bungalow Colony on Thompsonville Road. The bungalow colony is no longer active and all buildings associated with it have been torn down. Well #10 was not located during the site visit. Well #11 was found in a concrete well pit, however, the well pit was flooded and the top of the well could not be seen under the water to assess its condition. Well #12 is a very short stick-up well on the west side of the bungalow property (figure 6). There was no pump in Well #12 and the older style cap, which has a hole in the center to suspend the well pump, was open leaving the well exposed. Well #14 is a taller stick-up well on the east side of the bungalow property (figure 6). Well #14 still has its pump and some piping present, however, there was no electrical service and the overall condition of the equipment was poor.

Wells #15, #16, #17 and #18 are located on the former Greenburg Property on the south side of Thompsonville Road. Well #18 was located during the site visit. Mr. Hummel stated that a caretaker had lived in the home associated with Well #18 until recently and the well had been in use until the home was vacated. Well #18 had no pump and no well cap; leaving the top of the well casing exposed. Well #18 also had a noticeable dent in the side of the casing where it appears to have been hit by a vehicle. The location of the well pit containing Well #15 was identified during the site visit, however, the covering of the well pit had rotted and collapsed. Therefore, the well inside the pit was not observed during the site visit. Wells #16 and #17 were not located under the snow cover during the site visit. All of the homes are reported to be vacant on the property and Mr. Hummel stated that several buildings have been torn down on the property.

Wells #19 and #31 are located on the former Green Property on the east side of Joyland Road. The wells were reported to be a former supply well for a summer camp on the site. All buildings on the property have been torn down. Well #19 is a stick-up well which had some wiring present, but it appeared the column pipe holding the pump had broken and the pump may have fallen down the well. The well was overall in very poor condition with holes rotted in the side of the well casing and portions of the well cap were open leaving the well exposed. Well #31 is located in a well pit inside a small building on the property. There was no cap on this well and there was no pump or other appurtenance present.

Wells #21, #22, and #23 were supply wells for the former Breezy Corners Bungalow Colony property. All three wells are located in well pits. Wells #21 and #22 are not in service although both appeared to still be equipped with pumps. Well #23 remains in use as described in the above section.

Wells #24 and #25 are former supply wells for vacant residential homes (rental properties) on the project site. Well #24 was reported to be located in the basement of the rental house. The house was not entered during the site visit because of safety concerns. Well #25 is a stick-up well in the woods north of the vacant rental home on Rock Ridge Road. The well was equipped with a well pump, but no electric service.

Well #26 is located on the Lakeside Villa property. The well is a stick-up well, with rusty casing and a H.W. Goetz logo well cap. LBGES did not open the well to determine whether a pump was present. All buildings on the property appeared vacant, therefore, it is likely the well is not currently in use.

Wells #27, #28 and #29 appear to be supply wells for the Silvers Apartments. The buildings were run down and it was unclear whether any were currently occupied or whether the wells were in use. Wells #28 and #29 were stick-up wells in relatively good condition. The wells were not opened to determine whether they were equipped with pumps. Well #27 was located in a well pit adjacent to Well #28. There was no pump in Well #28 and the building, which had been constructed over the well pit, was dilapidated and crumbling.

Well #30 is the supply well for the single-family home on the Cohen property. The well was not located during the site visit.

As discussed above, wells which were not found during the site visit include Wells #5, #10, #13, #16, #17, #24 and #30. Well #5 is reported to be located along the access road to the Chalet/Pro Shop. Mr. Hummell stated that he has looked for this well several times in the past and has been unable to find it. He believes the well was destroyed or covered at some point in the past. The remaining wells are likely still present on the study property, and once the snow cover has melted, another search for them will be completed.

POTENTIAL AREAS OF GROUNDWATER QUALITY CONCERN

There are several areas of concern (AOC) on the property which could pose potential issues (i.e., siting of new well locations) related to groundwater contamination. Based on information provided by AKRF, areas of the site and adjacent Concord Hotel property are involved in the Brownfield Cleanup Program. The main areas of concern are: the former Concord Hotel site (off property); the former Gas Station and the former International Golf Club

on the northwestern region of the property near Concord Road; the existing Golf Maintenance Building/Disposal Area on Chalet Road; and the disposal area on the International Golf Course on the northern region of the property.

Potential constituents of concern related to these AOCs include PCBs, pesticides, VOCs, semi-volatile organic compounds (SVOCs) and metals. Limited data are available regarding the potential or existing impacts of these sites on the local groundwater quality.

In addition to these areas in the Brownfield Cleanup Program, several other existing land uses on the project site should be noted as posing a potential concern for groundwater quality. Several reported USTs and above ground storage tanks (ASTs) are reported to still be in operation at the property, most notably by the existing Golf Maintenance Building. In addition, chemical storage (herbicide, pesticide, etc.) for the golf course is also located at the Golf Maintenance Building. The presence of ASTs/USTs and chemical storage will limit the areas to be considered for test well siting because of NYSDOH offset distance requirements for public water-supply wells.

Another potential groundwater quality concern is the historic and ongoing application of herbicides, pesticides, and other turf management products to the onsite golf courses. The ongoing use of the chemicals may influence regulatory approval of test well sites near the golf courses and may result in additional preliminary groundwater quality analyses to assess the potential impacts.

No AOC were identified on the southeast portion of the property which was the focus of this report, however, the existing land uses and known AOC on other areas of the property described above may impact the selection of future well sites on other portions of the study property. This factor may potentially limit the capacity of the groundwater resources which can be developed on the site by preventing drilling and water-supply development in certain areas which may be geologically favorable. Additionally, although the AOCs and chemical storage and application areas are not located in the southeastern area of the site, once groundwater contaminations has occurred, contaminants can migrate via groundwater flow to other areas beyond the spill/application area. Also, the pumping of wells can potentially change the direction of groundwater flow and increase both the rate and spread of contaminant migration in the aquifer.

PROPOSED TEST WELL LOCATIONS

LBGES has selected seven proposed bedrock test well locations on the southeastern region of the study property (Plate 1). The proposed well locations were selected based on a review of available geologic and hydrogeologic data for the study property and to meet regulatory offset distance requirements from known potential sources of contamination.

The well sites have been positioned to accommodate the New York State Department of Health (NYSDOH) well siting guidelines requiring a 100-foot radius of land ownership and a 200-foot radius of sanitary control around a public water-supply well based on the preliminary site development plan provided by AKRF. Should the site plan layout be modified, the revised layout will need to maintain the sanitary offset distances (which are listed in the NYSDOH Sanitary Code Appendix 5-D) to preserve the well locations or make allowances to construct wells at new locations. In addition, the proposed test wells that are located in proximity to wetlands identified as being regulated by NYSDEC have been sited outside of the 100-foot adjacent buffer area.

The proposed bedrock test well locations should be reviewed with the Sullivan County Health Department (SCDOH) prior to drilling and local well drilling permits from the Town of Thompson will also need to be obtained. The locations of the onsite wetland boundaries should be confirmed and reflagged, if necessary.

LBGES recommends that four of the seven test well locations be drilled initially, followed by the completion of short-term yield tests and preliminary testing of the groundwater quality. Based on the results of the preliminary well drilling and testing program, one or more of the other proposed test well locations may need to be drilled in order to develop the required supply.

Based on information provided by AKRF, at full build-out of the property the planned development would require approximately 1.1 mgd (million gallons per day) to meet the projected water demand. To obtain this quantity of water, the drilling of wells on other areas of the study property, in addition to those in the southeast region of the study property proposed herein, and the use of existing wells on the site, if permissible by the Health Department, will likely be needed. In addition, groundwater exploration of the unconsolidated, stratified-drift

kame deposits along the Kiamesha Creek valley may be warranted as part of the exploration program to develop sufficient capacity to meet the project's water demand.

INVESTIGATION OF EXISTING WELLS

Several of the existing onsite wells were located in close proximity to LBGES's proposed test well sites, including Wells #9, #10, #11, #12, #13, #14, #15, #16, #17, #18, #19 and #20. It is not likely that these wells can be reused as supply wells for the proposed development because of their poor conditions, unknown construction details and inability to meet Health Department sanitary control radius requirements. However, the wells have the potential to provide useful information during the completion of the groundwater resource investigation at the site.

LBGES recommends that the existing wells be used as water-level monitoring locations during the proposed well yield tests on the new bedrock test wells. The added monitor well locations will provide useful information regarding well interference under pumping conditions and help determine suitable locations for drilling additional test wells. The information will also be useful in obtaining the regulatory approvals that will eventually be needed to put a supply well into service.

Consideration should also be given to conducting preliminary yield tests (8 to 10 hours) on one or more of the existing wells to access the overall yield potential of wells on the southeastern region of the property. However, prior to using any of the wells as water-level monitoring points or conducting preliminary yield testing, the total depths of the wells will need to be measured, and in some cases, the existing pumps/appurtenances will need to be removed.

As discussed above, several of the wells are missing caps, have holes in the casing or other conditions such as flooding which represent potential sources for contamination to the bedrock aquifer on the property. LBGES is recommending that the condition of these wells be addressed as we move forward with the development of the onsite groundwater supply to prevent the creation of water-quality concerns from these unsecured wells such as bacterial contamination of the aquifer from surface water runoff into the open wells. Existing wells that will not serve a permanent function with the water-supply system for the development will need to be abandoned in accordance with Health Department regulations.

WELL TESTING AND PERMITTING

Once the test well drilling program has been completed and there is sufficient available capacity to meet the water demand for the Phase I portion the proposed development, a 72-hour pumping test program will need to be completed to confirm the stabilized yield of the wells. The testing program will include monitoring of existing onsite and offsite wells, if applicable, to determine potential interference under pumping conditions, monitoring of nearby surface-water features to determine potential impacts, water-quality sample collection for the NYSDOH Sanitary Code Part 5, Subpart 5-1 parameters for public water-supply wells, and collection of microscopic particulate analysis samples for wells located within 200 feet of a surface water body for an assessment of GWUDI (groundwater under the direct influence of surface water). The results of the pumping test, monitoring program and water-quality analyses will be used to support applications to the NYSDEC, NYSDOH, SCDOH and DRBC (Delaware River Basin Commission) for approval of the proposed water supply.

CONCLUSIONS

- Seven bedrock test well locations have been identified in the Phase I construction area on the southeastern area on the EPT Concord Resort based on LBGES's review of the onsite geology.
- LBGES recommends that four of the seven well locations be drilled initially and that preliminary yield tests and water-quality analysis be conducted. Based on the results of the preliminary well drilling and testing program, additional test well locations shown on the attached plan may need to be drilled.
- The existing land uses and known Brownfield AOCs could impact the selection of future well sites on other portions of the property. This factor may potentially limit the capacity of the groundwater resources which can be developed on the site by preventing drilling and water-supply development in certain areas which may be geologically favorable.

The existing onsite wells can potentially be used to provide additional information

through expanded water-level monitoring and/or yield testing. However, the overall

condition of the wells is poor and they also pose a potential concern for groundwater

quality in their current condition.

Investigation of stratified-drift kame deposits along the Kiamesha Creek valley may be

warranted as part of the groundwater exploration program to develop sufficient capacity

to meet the project's demand.

LBG Engineering Services, P.C.

Senior Hydrogeologist

Reviewed by:

William K. Beckman, P.E.

Principal

etn

 $May\ 4,\ 2012\\ \text{H:}\ AKRF\ 2012\ Hydrogeologic\ Assessment\ final.doc}$

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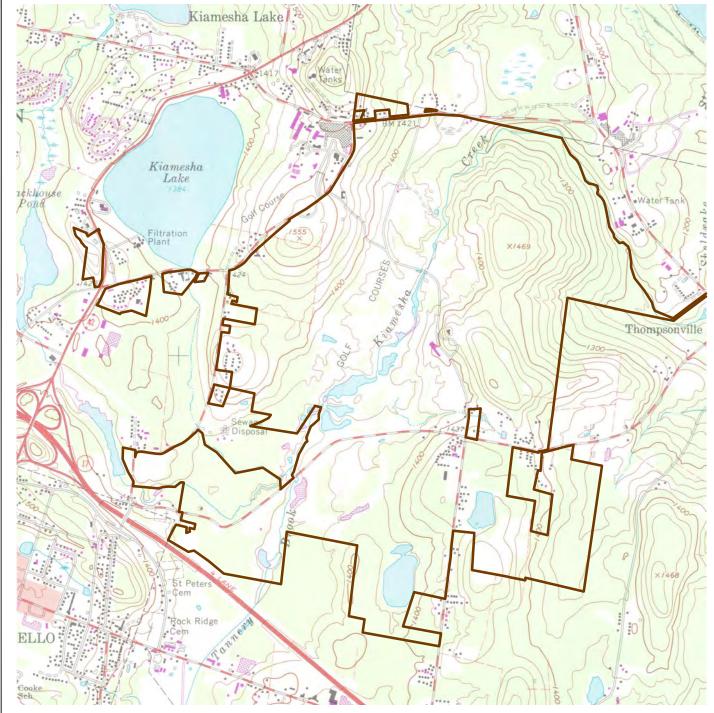
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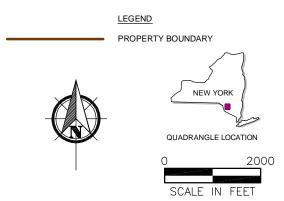
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FIGURES



SOURCE: USGS TOPOGRAPHIC QUADRANGLE MONTICELLO, NEW YORK (PHOTOREVISED 1982).



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CONCORD RESORT TOWN OF THOMPSON SULLIVAN COUNTY, NEW YORK

SITE LOCATION MAP

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- SOURCES:

 NEW YORK STATE GEOLOGICAL SURVEY, 1997, "SURFICIAL GEOLOGY LOWER HUDSON SHEET", NEW YORK STATE MUSEUM MAP AND CHART SERIES NUMBER 40.

 USGS TOPOGRAPHIC QUADRANGLE MONTICELLO, NEW YORK (GIS VERSION).

 BASE MAPS FOR CONCORD RESORT PROVIDED BY AKRF, INC.





CONCORD RESORT TOWN OF THOMPSON SULLIVAN COUNTY, NEW YORK

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BASE MAPS FOR CONCORD RESORT PROVIDED BY AKRF, INC.

LEGEND PROPERTY BOUNDARY MAPPED FAULT LINE

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UPPER WALTON BEDROCK FORMATION

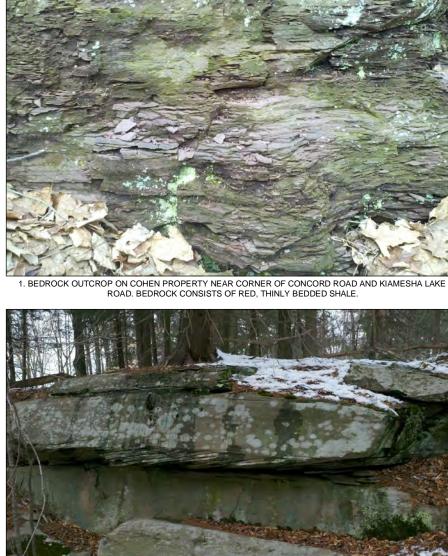
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CONCORD RESORT TOWN OF THOMPSON SULLIVAN COUNTY, NEW YORK

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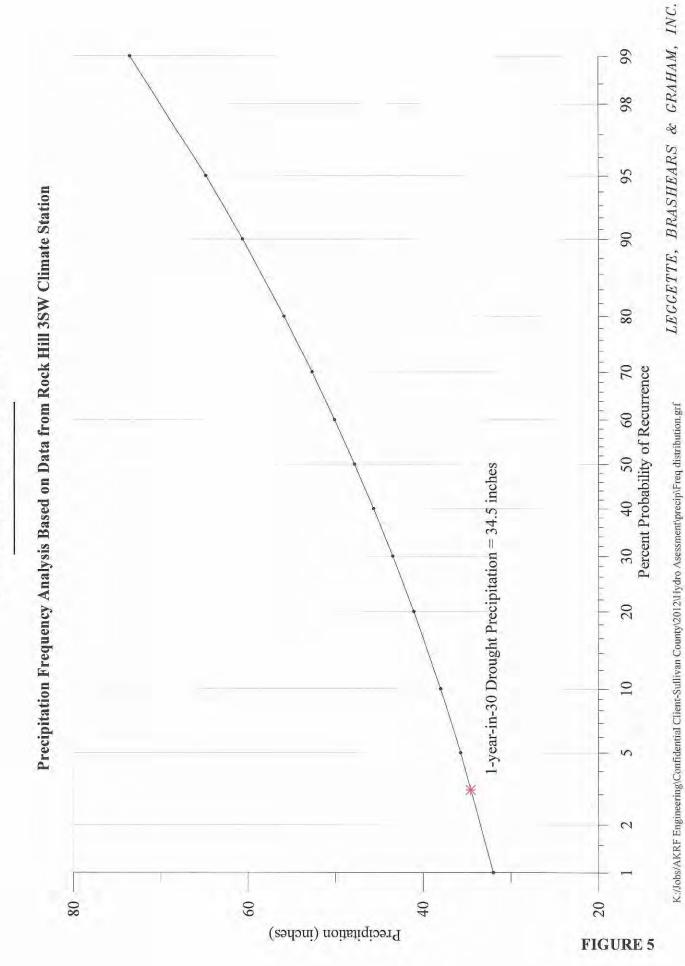
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CONCORD RESORT TOWN OF THOMPSON SULLIVAN COUNTY, NEW YORK

PHOTOGRAPHS OF BEDROCK OUTCROPS ON STUDY PROPERTY

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CONCORD RESORT TOWN OF THOMPSON SULLIVAN COUNTY, NEW YORK





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1 EXISTING WELL 12 ON MOUNTAINVIEW BUNGALOW PROPERTY. THOMPSONVILLE ROAD



2. EXISTING WELL 14 ON MOUNTAINVIEW BUNGALOW PROPERTY, THOMPSONVILLE ROAD.

CONCORD RESORT TOWN OF THOMPSON SULLIVAN COUNTY, NEW YORK

PHOTOGRAPHS OF EXISTING WELLS 12 AND 14 ON FORMER MOUNTAINVIEW BUNGALOW PROPERTY, THOMPSONVILLE ROAD

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1. EXISTING WELL 20 ON EAST SIDE OF JOYLAND ROAD, NO WELL PUMP AND NO WELL CAP.



2. SPRING 2 LOCATED ON FORMER GREENBURG PROPERTY, THOMPSONVILLE ROAD.

CONCORD RESORT TOWN OF THOMPSON SULLIVAN COUNTY, NEW YORK

PHOTOGRAPHS OF EXISTING WELL 20 AND SPRING 2

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