

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Blenheim - Cole Hollow Road cont/County: Schoharie Sampling Date: 11/14/12
 Applicant/Owner: Town of Blenheim State: N.Y. Sampling Point: 1
 Investigator(s): NCES Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): 3-8
 Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? No Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____ Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____ Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____ If yes, optional Wetland Site ID: <u>Wetland Area 1</u>
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) _____ <input checked="" type="checkbox"/> High Water Table (A2) _____ <input checked="" type="checkbox"/> Saturation (A3) _____ _____ Water Marks (B1) _____ _____ Sediment Deposits (B2) _____ _____ Drift Deposits (B3) _____ _____ Algal Mat or Crust (B4) _____ _____ Iron Deposits (B5) _____ _____ Inundation Visible on Aerial Imagery (B7) _____ _____ Sparsely Vegetated Concave Surface (B8) _____ _____ Water-Stained Leaves (B9) _____ _____ Aquatic Fauna (B13) _____ _____ Marl Deposits (B15) _____ _____ Hydrogen Sulfide Odor (C1) _____ <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) _____ _____ Presence of Reduced Iron (C4) _____ <input checked="" type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) _____ <input checked="" type="checkbox"/> Thin Muck Surface (C7) _____ _____ Other (Explain in Remarks) _____	<u>Secondary Indicators (minimum of two required)</u> <input checked="" type="checkbox"/> Surface Soil Cracks (B6) _____ <input checked="" type="checkbox"/> Drainage Patterns (B10) _____ _____ Moss Trim Lines (B16) _____ _____ Dry-Season Water Table (C2) _____ _____ Crayfish Burrows (C8) _____ _____ Saturation Visible on Aerial Imagery (C9) _____ _____ Stunted or Stressed Plants (D1) _____ _____ Geomorphic Position (D2) _____ _____ Shallow Aquitard (D3) _____ _____ Microtopographic Relief (D4) _____ _____ FAC-Neutral Test (D5) _____
--	---

Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>At surface</u> Water Table Present? Yes _____ No _____ Depth (inches): <u>N/A</u> Saturation Present? Yes _____ No _____ Depth (inches): <u>N/A</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 1

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. <u>N/A</u>			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Alnus rugosa</u>	<u>10</u>	<u>No</u>	<u>FACW</u>
2. <u>Salix nigra</u>	<u>10</u>	<u>No</u>	<u>FACW</u>
3. <u>Salix discolor</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>
4. <u>Cornus amomum</u>	<u>10</u>	<u>No</u>	<u>FACW</u>
5. _____			
6. _____			
7. _____			

45 = Total Cover

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>35</u>	x 1 = <u>35</u>
FACW species <u>100</u>	x 2 = <u>200</u>
FAC species <u>0</u>	x 3 = _____
FACU species <u>0</u>	x 4 = _____
UPL species <u>0</u>	x 5 = _____
Column Totals: <u>135</u> (A)	<u>235</u> (B)

Prevalence Index = B/A = 1.74

Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Typha latifolia</u>	<u>20</u>	<u>Yes</u>	<u>OBL</u>
2. <u>Scirpus cyperinus</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>
3. <u>Scirpus atrovirens</u>	<u>15</u>	<u>Yes</u>	<u>OBL</u>
4. <u>Lythrum salicaria</u>	<u>5</u>	<u>No</u>	<u>FACW</u>
5. <u>Solidago gigantea</u>	<u>10</u>	<u>No</u>	<u>FACW</u>
6. <u>Juncus effusus</u>	<u>5</u>	<u>No</u>	<u>FACW</u>
7. <u>Inoclea sensibilibs</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

90 = Total Cover

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is >50%
 - 3 - Prevalence Index is ≤3.0¹
 - 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 - Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. <u>N/A</u>			
3. _____			
4. _____			

_____ = Total Cover

Hydrophytic Vegetation Present? Yes No

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Blenheim - Cole Hollow Road ~~and~~ County: Schoharie Sampling Date: 11/14/12
 Applicant/Owner: T. of Blenheim State: N.Y. Sampling Point: 2
 Investigator(s): NCEJ Section, Township, Range: (T) of Blenheim
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): concave Slope (%): 3-8
 Subregion (LRR or MLRA): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? No Are "Normal Circumstances" present? Yes No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? No (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/> Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
No indicators of hydrology were observed.

VEGETATION – Use scientific names of plants.

Sampling Point: 2

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Pinus strobus</i>	10	No	FACU
2. <i>Juniperus virginiana</i>	10	No	FACU
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Crataegus crus-galli</i>	10	No	FACU
2. <i>Cornus racemosa</i>	15	Yes	FACW
3. <i>Pinus strobus</i>	10	No	FACU
4. _____			
5. _____			
6. _____			
7. _____			

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = _____
FACW species <u>0</u>	x 2 = _____
FAC species <u>15</u>	x 3 = <u>45</u>
FACU species <u>95</u>	x 4 = <u>380</u>
UPL species <u>35</u>	x 5 = <u>175</u>
Column Totals: <u>145</u> (A)	<u>600</u> (B)

Prevalence Index = B/A = 4.13

Herb Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Solidago canadensis</i>	30	Yes	FACU
2. <i>Daucus carota</i>	20	Yes	UPL
3. <i>Centaurea maculosa</i>	5	No	UPL
4. <i>Setaria faberii</i>	10	No	FACU
5. <i>Archium minus</i>	10	No	UPL
6. <i>Rumex crispus</i>	10	No	FACU
7. <i>Rubus occidentalis</i>	5	No	FACU
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			

- Hydrophytic Vegetation Indicators:**
- 1 - Rapid Test for Hydrophytic Vegetation
 - 2 - Dominance Test is >50%
 - 3 - Prevalence Index is ≤3.0¹
 - 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
- Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. <u>N/A</u>			
3. _____			
4. _____			

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No

Remarks: (Include photo numbers here or on a separate sheet.)

Appendix C

Wetland Delineation Map

Appendix D

***Supplemental Jurisdictional
Information***

Supplemental Information for Jurisdictional Determination Cole Hollow Road Re-Alignment Project

USACE Application #: Not Yet Established as of this date

Project Name: Town of Blenheim Cole Hollow Road Re-Alignment Project

Current Property Owners:

Parcel 161.-1-1.1 (226 Spur Rd)
103.3 Acres
John Dolker
PO Box 885
N. Blenheim, New York 12131

Parcel 149.-1-4.1 (Cole Hollow Rd)
21 Acres
Eugene Engle
PO Box 62,
Fultonham, New York 12071

Parcel 161.-1-1.2 (238 Cole Hollow Rd)
4 Acres
Angeliki Kalloudis
246-39 Vanzandt Ave,
Douglaston, New York 11362

Parcel 149.-1-5 (248 Cole Hollow Rd)
2 Acres
Eugene Engle
248 Cole Hollow Rd,
West Fulton, New York 12194

Project Applicant: Town of Blenheim
c/o Mr. Robert H. Mann, Jr. - Supervisor
1848 State Route 30
North Blenheim, New York 12131

Environmental Consultants
& Wetland Delineators: North Country Ecological Services, Inc.
25 West Fulton Street
Gloversville, New York 12078
(518) 725-1007

Total Property Acreage: 130 ± acres

Project Acreage/ Limits of Jurisdiction	6.0± acres	
Site Coordinates:	42° 42' 47.3" N Latitude and 74° 2' 0.0" W Longitude.	
Historic Land Use:	Agriculture/Residential/Wooded	
Current Land Use:	Fallow with no active use	
Average Annual Rainfall:	37.15 Inches	
Average Annual Snowfall:	82.25 Inches	
Site Location Map:	See Figure 1 in the Delineation Report – The Site is located along the northwestern side of Cole Hollow Road, at the intersection of Cole Hollow Road and Spur Road in the Town of Blenheim, Schoharie County, New York.	
DEC Wetlands Map:	See Figure 2 in the Delineation Report – No portions of any DEC regulated freshwater wetlands or Article 15 regulated streams exist within the Project Area.	
Soil Survey Map:	See Figure 3 in the Delineation Report - According to the Schoharie County soils information as detailed on the USDA Natural Resources Conservation Service Web Soil Survey 2.3 (the “Soil Survey”), there are three (3) separate soil series that are found on the Site. The soils are: Chippewa and Norwich stony silt loam, with 0 to 3 percent slopes (ChA), Lordstown, Oquaga and Nassau soils, with 35-70 percent slopes (LrF); and Mardin channery silt loam, with 2 to 35 percent slopes (McB, McD and McE, respectively)	
Total Wetlands:	0.60± acres	
Jurisdictional Wetlands:	<u>Acreage</u> Area 1 = 0.60 ± acres	<u>Centralized Coordinates</u> (42° 42' 47.9"N & 74° 2' 0.0"W)
Total On-Site Streams:	0.0± linear feet	
Traditional Navigable Waterways:	0.0± linear feet	

Perennial Relatively
Permanent Waterways: 0.00± linear feet

Seasonal Relatively
Permanent Waterways: 0.0± linear feet

Non-Relatively
Permanent Waterways: 0.0± linear feet

Wetland Connectivity with RPW's and TNW's:

The wetland is positioned in a "valley" positioned between two upland ridges. The wetland drains eastward towards Cole Hollow Road. A culvert is positioned under the road, which directs excess surface water to lands south and east of Cole Hollow Road. The off-site drainage continues via a vegetated wetland swale to Cole Hollow Brook, which is located approximately 500 feet southeast of the Site.

Cole Hollow Brook is a second order perennial tributary of Schoharie Creek. Cole Hollow Brook flows east and dispenses directly into Schoharie Creek, approximately 1 mile east of the Site. Schoharie Creek is a fourth order, perennial tributary (Relatively Permanent Waterway - RPW). Schoharie Creek flows to the north and directly into the Mohawk River. The Mohawk River is classified as a Traditional Navigable Waterway (TNW) by the USACE. Therefore, it has been determined that the on-site wetlands are hydrologically contiguous with a tributary system of a navigable waterway.

Potential Pollutants:

During the field review NCES did not identify any contaminants or visible point sources of pollution on the property. Potential road salt pollution and small debris from Cole Hollow Road may be found along the roadway right-of-way, adjacent to the southern and eastern property boundary. However, there were no visible signs at the time of the delineation. Other than typical roadside litter, no pollutants were observed by NCES.

Habitat For Species:

During the site assessments, NCES documented a variety of wildlife species on the Site. The species observed are extremely common and included white-tailed deer, wild turkey, coyote, and various woodland and early successional field associated songbirds. During the delineation, no endangered, threatened or rare species of flora or fauna were observed by NCES.