

APPENDIX A

WETLAND AND UPLAND DATA FORMS

WNY-SJB-001

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: NY LOOPING City/County: BRADY CO Sampling Date: 9/11/12
 Applicant/Owner: WILLIAMS NY State: NY Sampling Point: 001 Wetland
 Investigator(s): SJB/KBS Section, Township, Range: Windsor
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): CONCAVE Slope (%):
 Subregion (LRR or MLRA): LRR 2 Lat: 42.117739 Long: -75.715983 Datum: NAD83
 Soil Map Unit Name: VOC - Valusia Channery silt loam 8-15% NWI classification: PEM
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks.)
 Are Vegetation NO Soil X or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation NO Soil NO or Hydrology NO naturally problematic? (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 <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present? Yes <u>X</u> No _____	If yes, optional Wetland Site ID: <u>WNY-SJB-001</u>
Wetland Hydrology Present? Yes <u>X</u> No _____	

Remarks: (Explain alternative procedures here or in a separate report.)
Timbercutting under access road and is obtaining up water.

HYDROLOGY

Wetland Hydrology Indicators:		Secondary indicators (minimum of two required)	
Primary indicators (minimum of one is required, check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B8)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Moss Trim Lines (B16)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Saturation (A3) <u>Slight</u>	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Crayfish Burrows (C8)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Shallow Aquifer (D3)	<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> FAC-Neutral Test (D6)	
<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)			

Field Observations:	Wetland Hydrology Present? Yes <u>X</u> No _____
Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____	
Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>8"</u>	
Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>0-8"</u>	

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

Remarks:
* Saturation only in upper soil layer, on top of 2nd layer which is clay, episaturation.

VEGETATION - Use scientific names of plants.

Sampling Point: WN14-SJB 001

Tree Stratum (Plot size: <u>50</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>None observed</u>			
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
			<u>6</u> = Total Cover
Sapling/Shrub Stratum (Plot size: <u>15</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>None observed</u>			
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
			<u>0</u> = Total Cover
Herb Stratum (Plot size: <u>5</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Scirpus Sciperinus</u>	<u>4</u>	<u>N</u>	<u>FACW</u>
2. _____			
3. <u>Panicum sagittata</u>	<u>5</u>	<u>N</u>	<u>OBL</u>
4. <u>Carex scoparia</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>
5. <u>Scirpus atrovirens</u>	<u>10</u>	<u>N</u>	<u>OBL</u>
6. <u>Phleum pratense</u>	<u>15</u>	<u>N</u>	<u>FACW</u>
7. <u>Juncus effusus</u>	<u>15</u>	<u>N</u>	<u>FACW</u>
8. <u>Carex lurida</u>	<u>37</u>	<u>Y</u>	<u>OBL</u>
9. <u>Plantago lanceolata</u>	<u>2</u>	<u>N</u>	<u>UPL</u>
10. _____			
11. <u>Potentilla simplex</u>	<u>2</u>	<u>N</u>	<u>FACU</u>
12. _____			
			<u>110</u> = Total Cover
Woody Vine Stratum (Plot size: <u>15</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>None observed</u>			
2. _____			
3. _____			
4. _____			
			<u>0</u> = Total Cover

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)
Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> (A/B)

Prevalence Index worksheet:	
Total % Cover of	Multiply by
OBL species <u>52</u>	x 1 = <u>52</u>
FACW species <u>54</u>	x 2 = <u>108</u>
FAC species _____	x 3 = _____
FACU species <u>2</u>	x 4 = <u>8</u>
UPL species <u>2</u>	x 5 = <u>10</u>
Column Totals: <u>110</u>	(A) <u>178</u> (B)
Prevalence Index = B/A = <u>1.61</u>	

Hydrophytic Vegetation Indicators:

- 1 - Rapid Test for Hydrophytic Vegetation
- 2 - Dominance Test is >50%
- 3 - Prevalence Index is >3.0
- 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation (Explain): _____

Indicators 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.

Hydrophytic Vegetation Present? Yes No

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

WNY-SJB-002

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: NY Looping City/County: Broome Co Sampling Date: 9-11-12
 Applicant/Owner: Williams Ft. State: NY Sampling Point: WNY-SJB-002
 Investigator(s): SJB, KRS Section, Township, Range: Windsor Wetland
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%):
 Subregion (LRR or MLRA): CRK Lat: 42.108930 Long: -75.717699 Datum: NAD83
 Soil Map Unit Name: VOC-Vulstia-Channery silt loam 8-15% NWI classification: PEM
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No _____ (if no, explain in Remarks.)
 Are Vegetation No Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation No Soil No or Hydrology No naturally problematic? (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 _____	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No _____	Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No _____
Remarks: (Explain alternative procedures here or in a separate report.)		If yes, optional Wetland Site ID: <u>WNY-SJB-002</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary indicators (minimum of two required)	
Primary indicators (minimum of one is required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B18)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drill Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquifer (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Surface Water Present?	Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>—</u>		
Water Table Present?	Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>—</u>		
Saturation Present?	Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>6</u>		
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: <u>NA</u>			
Remarks: <u>Abutting WNY-SJB-002</u>			

VEGETATION - Use scientific names of plants.

Sampling Point: WNY-SJT3-002

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
Sapling/Shrub Stratum (Plot size: <u>15</u>)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
Herb Stratum (Plot size: <u>5</u>)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
Woody Vine Stratum (Plot size: <u>15</u>)			
1.			
2.			
3.			
4.			

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>3</u> (A)
Total Number of Dominant Species Across All Strata:	<u>3</u> (B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> (A/B)

Prevalence Index worksheet:	
Total % Cover of:	Multiply by:
OBL species <u>69</u>	x 1 = <u>69</u>
FACW species <u>38</u>	x 2 = <u>76</u>
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals:	<u>107</u> (A) <u>145</u> (B)
Prevalence Index = B/A = <u>1.3</u>	

Hydrophytic Vegetation Indicators:	
<input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation	
<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
<input checked="" type="checkbox"/> 3 - Prevalence Index is ≥3.0	
<input type="checkbox"/> 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	
<input type="checkbox"/> Problematic Hydrophytic Vegetation (Explain):	

Indicators 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.	

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: (Include photo numbers here or on a separate sheet.)

WNY-SJB-003

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: NY LOOPING City/County: BROOME CO Sampling Date: 9/11/12
 Applicant/Owner: WILLIAMS State: NY Sampling Point: 003 wetland
 Investigator(s): SJB/KRS Section, Township, Range: WINDSOR
 Landform (hillside, terrace, etc.): HILLSLOPE Local relief (concave, convex, none): CONCAVE Slope (%): 4
 Subregion (LRR or MLRA): LRRR Lat: 42.108724 Long: -75.714687 Datum: NAD83
 Soil Map Unit Name: VOL + VdD, Yellow clayey silt loam 9-15% 15-25% MVA classification: PEM
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (if no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (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 <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID <u>WNY-SJB-003</u>
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>CLEARING IN FOREST ALONG SNY-SJB-002</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required, check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Stained Leaves (B0)	<input type="checkbox"/> Surface Soil Cracks (B8)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Moss Trim Lines (B16)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Crayfish Burrows (C8)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Sediment Deposits (B2) <u>SLUDGE</u>	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Shallow Aquitard (D3)	<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<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)			

Field Observations:		Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Surface Water Present? Yes <u> </u> No <u>X</u>	Depth (inches): <u> </u>		
Water Table Present? Yes <u> </u> No <u>X</u>	Depth (inches): <u> </u>		
Saturation Present? (includes capillary fringe) Yes <u> </u> No <u>X</u>	Depth (inches): <u> </u>		

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

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: WNY-SJB-003

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:														
1. <u>None observed</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)														
2.				Total Number of Dominant Species Across All Strata: <u>2</u> (B)														
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)														
4.				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;">Total % Cover of</th> <th style="width:50%;">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>20</u></td> <td>x 1 = <u>20</u></td> </tr> <tr> <td>FACW species <u>71</u></td> <td>x 2 = <u>142</u></td> </tr> <tr> <td>FAC species</td> <td>x 3 =</td> </tr> <tr> <td>FACU species <u>10</u></td> <td>x 4 = <u>64</u></td> </tr> <tr> <td>UPL species</td> <td>x 5 =</td> </tr> <tr> <td>Column Totals <u>107</u> (A)</td> <td><u>226</u> (B)</td> </tr> </tbody> </table> Prevalence Index = B/A = <u>2.11</u>	Total % Cover of	Multiply by:	OBL species <u>20</u>	x 1 = <u>20</u>	FACW species <u>71</u>	x 2 = <u>142</u>	FAC species	x 3 =	FACU species <u>10</u>	x 4 = <u>64</u>	UPL species	x 5 =	Column Totals <u>107</u> (A)	<u>226</u> (B)
Total % Cover of	Multiply by:																	
OBL species <u>20</u>	x 1 = <u>20</u>																	
FACW species <u>71</u>	x 2 = <u>142</u>																	
FAC species	x 3 =																	
FACU species <u>10</u>	x 4 = <u>64</u>																	
UPL species	x 5 =																	
Column Totals <u>107</u> (A)	<u>226</u> (B)																	
5.																		
6.																		
7.																		
Sapling/Shrub Stratum (Plot size: <u>15</u>)																		
1.				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is >3.0 ___ 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation (Explain):														
2.																		
3.																		
4.																		
5.																		
6.																		
7.																		
Herb Stratum (Plot size: <u>5</u>)																		
1. <u>SCIRPUS ATROVIRENS</u>	<u>8</u>	<u>N</u>	<u>OBL</u>	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.														
2. <u>JUNCUS EFFLUSUS</u>	<u>36</u>	<u>Y</u>	<u>FACW</u>															
3. <u>CAREX LURIDA</u>	<u>12</u>	<u>N</u>	<u>OBL</u>															
4. <u>CAREX SCOPARIA</u>	<u>15</u>	<u>N</u>	<u>FACW</u>															
5. <u>SCIRPUS CYPERINUS</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>															
6. <u>RUBUS ALLEGHENIENSIS</u>	<u>16</u>	<u>N</u>	<u>FACU</u>															
7.																		
8.																		
9.																		
10.																		
11.																		
12.																		
Woody Vine Stratum (Plot size: <u>15</u>)																		
1.				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														
2.																		
3.																		
4.																		
0 = Total Cover																		
Remarks: (Include photo numbers here or on a separate sheet)																		

WNY-SJB-004

WETLAND DETERMINATION DATA FORM -- Northcentral and Northeast Region

Project Site: NY LOOPING City/County: BROOK CO Sampling Date: 9/12/12
 Applicant/Owner: WILLIAMS State: PA Sampling Point: WNY-SJB 004 wetland
 Investigator(s): SJB/KRS Section, Township, Range: WINDSOR
 Landform (hillside, terrace, etc.): TERRACE Local relief (concave, convex, none): CONCAVE Slope (%): 2
 Subregion (LRR or MLRA): LRR Lot: 42.1082401 Long: -75.717806 Datum: NAD83
 Soil Map Unit Name: V03-Volusia churning silt loam 3-8% slope RWC classification: PEM
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation N Soil N or Hydrology N naturally problematic? (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 <u>X</u> No <u> </u>	Is the Sampled Area Within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID <u>WNY-SJB-004</u>
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>CLEARING IN FOREST AT EDGE OF CLEARED ROW</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u>	Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u>	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Saturation Present? (includes capillary fringe) Yes <u>X</u> No <u> </u> Depth (inches): <u>10-10</u>			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: <u>N/A</u>			
Remarks: <u>Saturation sits on top of clay layer.</u>			

VEGETATION - Use scientific names of plants.

Sampling Point: WNY-SJB-004

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.	<u>NONE present</u>		
5.			
6.			
7.			

Sapling/Shrub Stratum (Plot size: <u>15</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.	<u>None present</u>		
4.			
5.			
6.			
7.			

Herb Stratum (Plot size: <u>5</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<u>30</u>	<u>Y</u>	<u>FACW</u>
2.	<u>20</u>	<u>Y</u>	<u>OBL</u>
3.	<u>5</u>	<u>N</u>	<u>OBL</u>
4.	<u>10</u>	<u>N</u>	<u>FACW</u>
5.	<u>18</u>	<u>N</u>	<u>FACW</u>
6.	<u>10</u>	<u>N</u>	<u>OBL</u>
7.	<u>5</u>	<u>N</u>	<u>FACW</u>
8.	<u>2</u>	<u>N</u>	<u>FACW</u>
9.			
10.			
11.			
12.			

Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.	<u>None</u>		
4.			

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)
Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> (A/B)

Prevalence Index worksheet:	
Total % Cover of:	Multiply by:
OBL species <u>35</u>	x 1 = <u>35</u>
FACW species <u>60</u>	x 2 = <u>120</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>5</u>	x 4 = <u>20</u>
UPL species _____	x 5 = _____
Column Totals: <u>100</u> (A)	<u>175</u> (B)
Prevalence Index = B/A = <u>1.75</u>	

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.

Hydrophytic Vegetation Present? Yes No

WNY-SJB-05

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project Site: IVY Looping City/Country: Brome Sampling Date: 9-12-12
 Applicant/Owner: Williams State: NY Sampling Point: Wetland
 Investigator(s): SJB, KES Section, Township, Range: Windsor
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): CONCAVE Slope (%):
 Subregion (LRR or MLRA): LRRK Lat: 42.004544 Long: -75.715129 Datum: NAD 83
 Soil Map Unit Name: VAB-Vausia silty clay, 3-8 NYI classification: PEM
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation Y, Soil Y*, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (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 <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present? Yes <u>X</u> No _____	If yes, optional Wetland Site ID <u>WNY-SJB-005</u>
Wetland Hydrology Present? Yes <u>X</u> No _____	

Remarks: (Explain alternative procedures here or in a separate report.)
CLEARING AT EDGE OF FOREST
* WESTERN EDGE OF WETLAND IN CLEARED ROW, WHERE SOIL AND VEG ARE DISTURBED

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required, check all that apply)			
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water Stained Leaves (B9)	<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:		Wetland Hydrology Present? Yes <u>X</u> No _____	
Surface Water Present? Yes <u>X</u> No _____	Depth (inches): <u>1</u>		
Water Table Present? Yes _____ No <u>X</u>	Depth (inches): <u>1</u>		
Saturation Present? Yes <u>X</u> No _____	Depth (inches): <u>7</u>		
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: <u>NA</u>			
Remarks: <u>Subsurface hydrology from diverted stream + ditches further upslope on existing ROW.</u> <u>-Surface water has orange coloration.</u>			

VEGETATION - Use scientific names of plants.

Sampling Point: LON1-SJB-605

Tree Stratum (Plot size: <u>30</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
3.				
4.	<u>None</u>			
5.				
6.				
7.				

Sapling/Shrub Stratum (Plot size: <u>15</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<u>Hamamelis virginiana</u>	<u>12</u>	<u>Y</u>	<u>FAC</u>
2.				
3.				
4.				
5.				
6.				
7.				

Herb Stratum (Plot size: <u>5</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<u>Scirpus atrovirens</u>	<u>15</u>	<u>N</u>	<u>OBL</u>
2.	<u>Typha latifolia</u>	<u>8</u>	<u>N</u>	<u>OBL</u>
3.	<u>Trifolium pratense</u>	<u>23</u>	<u>Y</u>	<u>FACU</u>
4.	<u>Carex spp</u>	<u>25</u>	<u>Y</u>	<u>-</u>
5.	<u>Carex scabrata</u>	<u>10</u>	<u>N</u>	<u>OBL</u>
6.	<u>Eleocharis obtusa</u>	<u>5</u>	<u>N</u>	<u>OBL</u>
7.	<u>Rubus allegheniensis</u>	<u>4</u>	<u>N</u>	<u>FACU</u>
8.	<u>Acer rubrum</u>	<u>2</u>	<u>N</u>	<u>FAC</u>
9.				
10.	<u>Juncus effusus</u>	<u>33</u>	<u>Y</u>	<u>FACU</u>
11.				
12.				

Woody Vine Stratum (Plot size: <u>5</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.	<u>None</u>			
3.				
4.				

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)
Total Number of Dominant Species Across All Strata:	<u>3</u> (B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>6.7</u> (A/B)

Prevalence Index worksheet:	
Total % Cover of:	_____ Multiply by:
OBL species	x 1 = _____
FACW species	x 2 = _____
FAC species	x 3 = _____
FACU species	x 4 = _____
UPL species	x 5 = _____
Column Totals:	(A) _____ (B) _____
Prevalence Index = B/A = _____	

Hydrophytic Vegetation Indicators:	
<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation	
<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
<input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹	
<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (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.	

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: (Include photo numbers here or on a separate sheet.)

Plants not identified to species not used in calculation of dominance test

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NY Looping City/County: Broomfield Co. Sampling Date: 9-12-12
 Applicant/Owner: Williams State: NY Sampling Point: WNY-SJB-006
 Investigator(s): SJB, KRS Section, Township, Range: Windsor
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Concave Slope (%): _____
 Subregion (LRR or MLRA): LRRR Lat: 42.107029 Long: -75.714907 Datum: NAD83
 Soil Map Unit Name: NaS - Volusia channery silt loam 3-8% slope NWI classification: PEM
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation N Soil N or Hydrology N naturally problematic? (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>WNY-SJB-006</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> ___ Surface Water (A1) ___ Water-Stained Leaves (B9) ___ High Water Table (A2) ___ Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) ___ Marl Deposits (B15) ___ Water Marks (B1) <input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2) <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) ___ Drift Deposits (B3) ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5) ___ Thin Muck Surface (C7) ___ Inundation Visible on Aerial Imagery (B7) ___ Other (Explain in Remarks) ___ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required):</u> ___ 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 _____ No <input checked="" type="checkbox"/> Depth (inches): <u>5</u> Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (Includes capillary fringe) Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>7</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: <p align="center" style="font-size: 1.5em;"><u>N/A</u></p>	
Remarks: 	

VEGETATION - Use scientific names of plants.

Sampling Point: WNY-SJB-006

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.	None present		
5.			
6.			
7.			
<u>0</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.	None present		
4.			
5.			
6.			
7.			
<u>0</u> = Total Cover			
Herb Stratum (Plot size: <u>5</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<u>20</u>	<u>Y</u>	<u>OBL</u>
2.	<u>15</u>	<u>N</u>	<u>OBL</u>
3.	<u>6</u>	<u>N</u>	<u>FAC</u>
4.	<u>32</u>	<u>Y</u>	<u>FACW</u>
5.	<u>10</u>	<u>N</u>	<u>OBL</u>
6.	<u>12</u>	<u>N</u>	<u>OBL</u>
7.	<u>8</u>	<u>N</u>	<u>FACW</u>
8.			
9.			
10.			
11.			
12.			
<u>103</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>15</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.	None observed		
3.			
4.			
<u>0</u> = Total Cover			

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)
Total Number of Dominant Species Across All Strata:	<u>2</u> (B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> (A/B)

Prevalence Index worksheet:	
Total % Cover of	Multiply by
OBL species <u>57</u>	x 1 = <u>57</u>
FACW species <u>40</u>	x 2 = <u>80</u>
FAC species <u>6</u>	x 3 = <u>18</u>
FACU species	x 4 =
UPL species	x 5 =
Column Totals: <u>103</u> (A)	<u>155</u> (B)
Prevalence Index = B/A = <u>1.5</u>	

Hydrophytic Vegetation Indicators:	
<input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation	
<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
<input checked="" type="checkbox"/> 3 - Prevalence Index is >3.2	
<input type="checkbox"/> 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	
Problematic Hydrophytic Vegetation? (Explain):	
Indicators 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.	

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NY-Looping City/Country: Broome Sampling Date: 9-12-12
 Applicant/Owner: Williams State: NY Sampling Point: WNY-SJB-007
 Investigator(s): SJB-FRS Section, Township, Range: Windsor wetland
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Concave Slope (%) _____
 Subregion (LRR or MLRA): URRR Lat: 42.107491 Long: -75.714937 Datum: NAD-83
 Soil Map Unit Name: VoB-Volusia channery silt loams 3-8% Slope NWI classification: PEM
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation N, Soil X, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (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 <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>WNY-SJB-007</u>
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) <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 checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input checked="" 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 checked="" 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 <u>X</u> Depth (inches): <u>-</u> Water Table Present? Yes _____ No <u>X</u> Depth (inches): <u>-</u> Saturation Present? (includes capillary fringe) Yes <u>X</u> No _____ Depth (inches): <u>7</u>	Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: <p align="center" style="font-size: 2em;">N/A</p>	
Remarks: 	

WVY-SJB
007

VEGETATION - Use scientific names of plants.

Sampling Point: 007

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. None observed				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
2.				Total Number of Dominant Species Across All Strata: 4 (B)
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
4.				Prevalence Index worksheet:
5.				
6.				OBL species: 21 x 1 = 21
7.				FACW species: 54 x 2 = 108
				FAC species: 8 x 3 = 24
				FACU species: _____ x 4 = _____
				UPL species: _____ x 5 = _____
				Column Totals: 83 (A) 153 (B)
				Prevalence Index = B/A = 1.8
				Hydrophytic Vegetation Indicators:
				<input checked="" type="checkbox"/> 2 - Dominance Test is >50%
				<input checked="" type="checkbox"/> 3 - Prevalence Index is <3.0 ¹
				4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
				Problematic Hydrophytic Vegetation (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				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 <input checked="" type="checkbox"/> No _____
				Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

WNM-SJB-
Sampling Point: 007

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type	Loc ²		
0-10	10YR 3/1	65	10YR 5/8	5			Sic	Fill
			10YR 3/3	20				
			10YR 5/5	10				
10-12	10YR 3/1		10YR 5/6	30			Sic L	Fill
			10YR 4/3	30				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F8) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coastal Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peel or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TAG) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:	

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NY-Looping City/County: Bossme Sampling Date: 9-10-12
 Applicant/Owner: Williams State: NY Sampling Point: WNY-SJB-008
 Investigator(s): SJB KRS Section, Township, Range: Windsor wetland
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): None Slope (%): _____
 Subregion (LRR or MLRA): LRR-R Lat: 42.107934 Long: -75.714848 Datum: NAD83
 Soil Map Unit Name: VoB-Volusia channery silt loam, 3-8% slope NYI classification: PEM
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation N Soil N or Hydrology N naturally problematic? (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 <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>WNY-SJB-008</u>
Remarks: (Explain alternative procedures here or in a separate report.) 	

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required, check all that apply) ___ Surface Water (A1) ___ Water-Stained Leaves (B9) ___ High Water Table (A2) ___ Aquatic Fauna (B13) ___ Saturation (A3) ___ Marl Deposits (B15) ___ Water Marks (B1) <u>Slight</u> <u>X</u> Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2) <u>X</u> Oxidized Rhizospheres on Living Roots (C3) ___ Drill Deposits (B3) ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5) ___ Thin Muck Surface (C7) ___ Inundation Visible on Aerial Imagery (B7) ___ Other (Explain in Remarks) ___ Sparsely Vegetated Concave Surface (B8)	___ Surface Soil Cracks (B8) ___ 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 (D6)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <u>X</u> Depth (inches): _____	Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: <div style="font-size: 2em; font-weight: bold; text-align: center;">N/A</div>	
Remarks: 	

WNY-SJB
008
Sampling Point: 008

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.	None observed				Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)
2.					Total Number of Dominant Species Across All Strata:	3 (B)
3.					Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/B)
4.						
5.						
6.						
7.						
					Prevalence Index worksheet:	
					Total % Cover of	Multiply by:
					OBL species: 53	x 1 = 53
					FACW species: 52	x 2 = 104
					FAC species: 4	x 3 = 12
					FACU species: 25	x 4 = 100
					UPL species:	x 5 =
					Column Totals: 134 (A)	269 (B)
					Prevalence Index = B/A = 2	
					Hydrophytic Vegetation Indicators:	
					<input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is <3.0 <input type="checkbox"/> 4 - Morphological Adequations (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation (Explain):	
					Indicators 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.	
					Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sapling/Shrub Stratum (Plot size: 15)		0 = Total Cover				
1.	None observed					
2.						
3.						
4.						
5.						
6.						
7.						
Herb Stratum (Plot size: 5)		0 = Total Cover				
1.	Carex lurida	25	Y	OBL		
2.	Scirpus atrovirens	15	Y	OBL		
3.	Eupatorium perfoliatum	2	N	FACW		
4.	Juncus effusus	30	Y	FACW		
5.	Rubus flagellaris	10	N	FACU		
6.	Potentilla simplex	5	N	FACW		
7.	Thelypteria noveboracensis	4	N	FACU		
8.	Glyceria canadensis	8	N	OBL		
9.	Scirpus cyperinus	10	N	FACW		
10.	Carex scaparia	10	N	FACW		
11.	Panicum sagittatum	5	N	OBL		
12.	Rubus allegheniensis	10	N	FACU		
		134	= Total Cover			
Woody Vine Stratum (Plot size: 15)		0 = Total Cover				
1.	None observed					
2.						
3.						
4.						
Remarks: (Include photo numbers here or on a separate sheet.)						

WNY-SJB-009

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project Site: NY Looping City/County: Broome Sampling Date: 9-12-12
 Applicant/Owner: Williams State: NY Sampling Point: WNY-SJB-009
 Investigator(s): SJB, KRS Section, Township, Range: Windsor
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): None Slope (%): _____
 Subregion (LRR or MLRA): LCR2 Lat: 42.108667 Long: -75.715198 Datum: NAD83
 Soil Map Unit Name: Vd12-Volusia Chenery silt loam 15-25% slope NW classification: PEM
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No _____ (if no, explain in Remarks.)
 Are Vegetation NP Soil N2 or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation N2 Soil N2 or Hydrology No naturally problematic? (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 _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	If yes, optional Wetland Site ID: <u>WNY-SJB-009</u>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Wetland that goes in and out of tree-line of existing ROW</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B8)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drill Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquifer (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D6)
Field Observations:		
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): <u>1</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Water Table Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): <u>12</u>	
Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No _____	Depth (inches): <u>12</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: <u>N/A</u>		
Remarks:		

VEGETATION - Use scientific names of plants.

Sampling Point: WNY-553-209

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>6</u> (B)
3. <u>Tsuga canadensis</u>	<u>8</u>	<u>Y</u>	<u>FACU</u>	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80/67%</u> (A/B)
4. <u>Acer rubrum</u>	<u>8</u>	<u>Y</u>	<u>FACU</u>	
5. _____				
6. _____				
7. _____				
<u>16</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:
1. <u>Fagus grandifolia</u>	<u>4</u>	<u>Y</u>	<u>FACU</u>	Total % Cover of: OBL species <u>60</u> x 1 = <u>60</u>
2. _____				FACW species <u>27</u> x 2 = <u>54</u>
3. _____				FAC species <u>10</u> x 3 = <u>30</u>
4. _____				FACU species <u>17</u> x 4 = <u>68</u>
5. _____				UPL species _____ x 5 = _____
6. _____				Column Totals: <u>114</u> (A) <u>212</u> (B)
7. _____				Prevalence Index = B/A = <u>1.85</u>
<u>4</u> = Total Cover				
Herb Stratum (Plot size: <u>5</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Juncus effusus</u>	<u>15</u>	<u>N</u>	<u>FACW</u>	<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation
2. <u>Impatiens capensis</u>	<u>6</u>	<u>N</u>	<u>FACW</u>	<input checked="" type="checkbox"/> 2 - Dominance Test is >50%
3. <u>Scirpus atrovirens</u>	<u>20</u>	<u>Y</u>	<u>OBL</u>	<input checked="" type="checkbox"/> 3 - Prevalence Index is <3.0
4. <u>Carex lasida</u>	<u>20</u>	<u>Y</u>	<u>OBL</u>	<input type="checkbox"/> 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
5. <u>Onoclea sensibilis</u>	<u>6</u>	<u>N</u>	<u>FACW</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation (Explain)
6. <u>Glycyca canadensis</u>	<u>20</u>	<u>Y</u>	<u>OBL</u>	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. _____				
8. _____				
9. <u>Solidago rugosa</u>	<u>2</u>	<u>N</u>	<u>FAC</u>	Definitions of Vegetation Strata:
10. <u>Polypodium acrostichoides</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11. _____				Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12. _____				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
<u>44</u> = Total Cover				Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: <u>15</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. <u>None observed</u>				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____				
3. _____				
4. _____				
<u>0</u> = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NY LOOPING City/County: WINDSOR BLOOMER CO. Sampling Date: 9/13/12
 Applicant/Owner: WILLIAMS State: NY Sampling Point: Wetland
 Investigator(s): SJB/KPS Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): TERRACE Local relief (concave, convex, none): None Slope (%): 2
 Subregion (LRR or MLRA): LRR Lat: 42.107956 Long: -75.715201 Datum: NAD83
 Soil Map Unit Name: Vol3-Volusia channely silt loam, 3-8% slope NVA classification: PFM
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No _____ (if no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation N Soil N or Hydrology N naturally problematic? (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>WNY-SJB-010</u>
Remarks: (Explain alternative procedures here or in a separate report.) <p align="center"><u>FLOODPLAIN OF SMALL STREAM, S NY - SJB - 002</u></p>	

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required, check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> Water Stained Leaves (B9)	<input type="checkbox"/> FAC-Neutral Test (D6)
<input type="checkbox"/> Aquatic Fauna (B13)	
<input type="checkbox"/> Marl Deposits (B15)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): <u>—</u> Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>5</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No _____ Depth (inches): <u>0</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: <p align="center"><u>N/A</u></p>	
Remarks:	

VEGETATION - Use scientific names of plants.

Sampling Point: WNY-SJB-010

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.	<u>none</u>		
4.			
5.			
6.			
7.			
<u>0</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.	<u>none</u>		
4.			
5.			
6.			
7.			
<u>0</u> = Total Cover			
Herb Stratum (Plot size: <u>5</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.	<u>PEPSICARIA SAGITTATUM</u>	<u>30</u>	<u>Y</u> <u>OBL</u>
2.	<u>IMPATIENS CAPENSIS</u>	<u>32</u>	<u>Y</u> <u>FACW</u>
3.	<u>GLYCERH SARDIENSIS</u>	<u>10</u>	<u>N</u> <u>OBL</u>
4.	<u>JUNCUS EFFUSUS</u>	<u>6</u>	<u>N</u> <u>FACW</u>
5.	<u>THELICTERIS NOVEBORACENSIS</u>	<u>4</u>	<u>N</u> <u>FAC</u>
6.	<u>CAREX SPP.</u>	<u>32</u>	<u>Y*</u> <u>-</u>
7.			
8.			
9.			
10.			
11.			
12.			
<u>114</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>15</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.	<u>none</u>		
4.			
<u>0</u> = Total Cover			

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>3</u> (A)
Total Number of Dominant Species Across All Strata:	<u>3</u> (B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100</u> (A/B)
Prevalence Index worksheet:	
Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B) _____
Prevalence Index = B/A = _____	
Hydrophytic Vegetation Indicators:	
1 - Rapid Test for Hydrophytic Vegetation	
<input checked="" type="checkbox"/> 2 - Dominance Test is >50%	
3 - Prevalence Index is >3.0	
4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)	
Problematic Hydrophytic Vegetation? (Explain): _____	
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Definitions of Vegetation Strata:	
Tree - Woody plants 3 in. (7.8 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 <input checked="" type="checkbox"/> No _____

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

FAC, FACW, * CAREX IS ASSUMED TO BE UNKNOWN OR OBL FOR PURPOSES OF THE DOMINANCE CALCULATION

NY FERW

WNY-SJB-01

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NY LOOPING City/County: BRANDT CO Sampling Date: 9/13/12
 Applicant/Owner: WILLIAMS State: NY Sampling Point: outland
 Investigator(s): SJB/KRS Section, Township, Range: Windsor
 Landform (hillslope, terrace, etc.): TERRACE Local relief (concave, convex, none): LOW CAVE Slope (%): 1
 Subregion (LRR or MLRA): LRRR Lat: 42.108119 Long: -75.71522 Datum: NAD83
 Soil Map Unit Name: Vo3-Volusia cherty silt loam 3-8% slope NVA classification: PEM1
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation N Soil N or Hydrology N naturally problematic? (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 <input type="checkbox"/>	Is the Sampled Area Within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID: <u>WNY-SJB-011</u>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>DEPRESSION IN CLEARING IN FOREST</u>	

HYDROLOGY

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drill Deposits (B3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Aquatic Fauna (B13)	
<input type="checkbox"/> Marl Deposits (B15)	
<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Other (Explain in Remarks)	
Field Observations:	
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>1</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>1</u>	
Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0-4"</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: <u>N/A</u>	
Remarks: <u>* FP SATURATION FROM 0-4" IN SURFACE SOIL LAYER OVERLYING DEEP CLAYEY SOIL LAYER</u>	

WNY - SJB - 012 PEM

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: NY Looping City/County: Broome Co. Sampling Date: 9-20-2012
 Applicant/Owner: Williams State: NY Sampling Point: 012
 Investigator(s): SJB, ves Section, Township, Range: Windsor
 Landform (hillslope, terrace, etc.): FLOODPLAIN Local relief (concave, convex, none): CONCAVE Slope (%): 3
 Subregion (LRR or MLRA): LRRP Lot: 42.10700-196 Long: -7571253 Datum: NAD 83
 Soil Map Unit Name: Vrs-Volusia channely silt loam NVA classification: PEM
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation N* Soil N* or Hydrology N* significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation N Soil N or Hydrology N naturally problematic? (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 <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID <u>WNY-SJB-012 PEM</u>
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)

CLEARING IN FOREST ON FLOODPLAIN OF SNY-SJB-004.

* EASTERN EDGE OF WETLAND EXTENDS INTO CLEARED ROW, WHERE SOILS AND NEG ARE DISTURBED. WETLAND ALSO INCLUDES AREA BEHIND CONSTRUCTED WATERBAR WHERE HYDROLOGY IS CONCENTRATED.

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required):
Primary Indicators (minimum of one is required, check all that apply):		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drill Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Filled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<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 X Depth (inches):
 Saturation Present? (includes capillary fringe) Yes X No Depth (inches): 5
 Wetland Hydrology Present? Yes X No

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

MA

Remarks

Heavy rain within last 2 days (18")

VEGETATION – Use scientific names of plants.

Sampling Point: WPA-SJB-01Z

Tree Stratum (Plot size <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1.				
2.				
3.				
4.				<u>NONE</u>
5.				
6.				
7.				
Sapling/Shrub Stratum (Plot size: <u>15</u>)				<u>0</u> = Total Cover
1.				
2.				
3.				<u>NONE</u>
4.				
5.				
6.				
7.				
Herb Stratum (Plot size <u>5</u>)				<u>0</u> = Total Cover
1.	<u>55</u>	<u>Y</u>	<u>OBL</u>	<u>PETIOLARIA sagittata</u>
2.	<u>20</u>	<u>N</u>	<u>FACW</u>	<u>Juncus effusus</u>
3.	<u>8</u>	<u>N</u>	<u>UPL</u>	<u>Fragaria vesca</u>
4.	<u>4</u>	<u>N</u>	<u>FACU</u>	<u>POTENTILLA SIMPLEX</u>
5.	<u>25</u>	<u>Y*</u>	<u>-</u>	<u>Carex spp</u>
6.	<u>5</u>	<u>N</u>	<u>OBL</u>	<u>Scirpus atrovirens</u>
7.	<u>3</u>	<u>N</u>	<u>OBL</u>	<u>Glyceria canadensis</u>
8.				
9.				
10.				
11.				
12.				
Woody Vine Stratum (Plot size: <u>15</u>)				<u>120</u> = Total Cover
1.				
2.				
3.				<u>NONE</u>
4.				
				<u>0</u> = Total Cover

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

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

Prevalence Index worksheet:

Total % Cover of	Multiply by
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals	(A) (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≥3.0

4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation (Explain)

Indicators 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.

Hydrophytic Vegetation Present? Yes No

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

Plants not identified to specimen not included in dominance calculations

WN4-SJB-012 PFO

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NY-Looping City/County: Broome CO Sampling Date: 9-19-12
 Applicant/Owner: Williams State: NY Sampling Point: 012
 Investigator(s): SJB, KRS Section, Township, Range: Windsor
 Landform (hillslope, terrace, etc.): FLOODPLAIN Local relief (concave, convex, none): CONCAVE Slope (%): 3
 Subregion (LRR or MLRA): LRRR Lat: 42.1071804 Long: -76.7525328 Datum: NAD83
 Soil Map Unit Name: VOB-Volusia channery silt loam 3-8% NWI classification: PFO
 Are climatic / hydrologic conditions on the site typical for the time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (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 <u>X</u> No <u> </u>	Hydric Soil Present? Yes <u>X</u> No <u> </u>	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: (Explain alternative procedures here or in a separate report.)			If yes, optional Wetland Site ID: <u>WN4-SJB-012 PFO</u>
<p>There are a few small undelineated upland islands (~200ft each) See upland from WN4-SJB-002 FLOODPLAIN OF SN4-SJB-004</p>			

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <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 checked="" 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)		Secondary Indicators (minimum of two required) <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 <u> </u> No <u>X</u> Depth (inches): <u>1</u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u>1</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>3</u> (Includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: <p style="text-align: center;">N/A</p>		
Remarks: <p style="text-align: center;">Heavy rain day before.</p>		

PFO

VEGETATION - Use scientific names of plants.

Sampling Point: WNY-SJB-012

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status															
1. <u>Acer saccharinum</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>70</u> (A/B)														
2. <u>Populus tremula</u>	<u>15</u>	<u>Y</u>	<u>FACU</u>															
3. <u>Quercus rubra</u>	<u>10</u>	<u>N</u>	<u>FACU</u>															
4. <u>Tsuga canadensis</u>	<u>25</u>	<u>Y</u>	<u>FACU</u>															
5. _____	_____	_____	_____	Prevalence Index worksheet: <table style="width:100%; border:none;"> <tr> <td style="border:none;">Total % Cover of:</td> <td style="border:none;">Multiply by:</td> </tr> <tr> <td style="border:none;">OBL species <u>33</u></td> <td style="border:none;">x 1 = <u>33</u></td> </tr> <tr> <td style="border:none;">FACW species <u>92</u></td> <td style="border:none;">x 2 = <u>184</u></td> </tr> <tr> <td style="border:none;">FAC species <u>37</u></td> <td style="border:none;">x 3 = <u>111</u></td> </tr> <tr> <td style="border:none;">FACU species <u>55</u></td> <td style="border:none;">x 4 = <u>220</u></td> </tr> <tr> <td style="border:none;">UPL species <u>0</u></td> <td style="border:none;">x 5 = _____</td> </tr> <tr> <td style="border:none;">Column Totals: <u>217</u></td> <td style="border:none;"><u>548</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.53</u>	Total % Cover of:	Multiply by:	OBL species <u>33</u>	x 1 = <u>33</u>	FACW species <u>92</u>	x 2 = <u>184</u>	FAC species <u>37</u>	x 3 = <u>111</u>	FACU species <u>55</u>	x 4 = <u>220</u>	UPL species <u>0</u>	x 5 = _____	Column Totals: <u>217</u>	<u>548</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>33</u>	x 1 = <u>33</u>																	
FACW species <u>92</u>	x 2 = <u>184</u>																	
FAC species <u>37</u>	x 3 = <u>111</u>																	
FACU species <u>55</u>	x 4 = <u>220</u>																	
UPL species <u>0</u>	x 5 = _____																	
Column Totals: <u>217</u>	<u>548</u> (B)																	
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
_____	<u>70</u> = Total Cover	_____	_____															
Sapling/Shrub Stratum (Plot size: <u>15</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0' <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
1. <u>Carpinus caroliniana</u>	<u>25</u>	<u>Y</u>	<u>FAC</u>															
2. <u>Hamamelis virginiana</u>	<u>0</u>	<u>N</u>	<u>FAC</u>															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
_____	<u>33</u> = Total Cover	_____	_____															
Herb Stratum (Plot size: <u>5</u>)				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.														
1. <u>Juncus effusus</u>	<u>25</u>	<u>Y</u>	<u>FACW</u>															
2. <u>Scirpus atrovirens</u>	<u>8</u>	<u>N</u>	<u>OBL</u>															
3. <u>Imperata capensis</u>	<u>18</u>	<u>Y</u>	<u>FACW</u>															
4. _____	_____	_____	_____															
5. <u>Solidago gigantea</u>	<u>6</u>	<u>N</u>	<u>FACW</u>															
6. <u>Thelyperis noveboracensis</u>	<u>4</u>	<u>N</u>	<u>FAC</u>															
7. <u>Potentilla simplex</u>	<u>5</u>	<u>N</u>	<u>FACU</u>															
8. <u>Persicaria sagittata</u>	<u>10</u>	<u>N</u>	<u>OBL</u>															
9. <u>Juncus canadensis</u>	<u>15</u>	<u>Y</u>	<u>OBL</u>															
10. <u>Scirpus cyperinus</u>	<u>8</u>	<u>N</u>	<u>FACW</u>															
11. <u>Agrostis alba</u>	<u>15</u>	<u>Y</u>	<u>FACW</u>															
12. _____	_____	_____	_____															
_____	<u>114</u> = Total Cover	_____	_____															
Woody Vine Stratum (Plot size: <u>15</u>)				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														
1. _____	_____	_____	_____															
2. <u>none</u>	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
_____	<u>0</u> = Total Cover	_____	_____															
Remarks: (Include photo numbers here or on a separate sheet.)																		

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WN4-SJB 013

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NY-looping City/County: Broome CO. Sampling Date: 9-19-12
Applicant/Owner: Williams State: NY Sampling Point: Wetland
Investigator(s): SJB, KES Section, Township, Range: Windsor

Landform (hillslope, terrace, etc.): TERRACE Local relief (concave, convex, none): CONCAVE Slope (%): 2

Subregion (LRR or MLRA): U22R Lat: 42.0536048 Long: -75.1156893 Datum: NAD83

Soil Map Unit Name: V013-Volusia circumny silt loam, 3-8% NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes [X] No (If no, explain in Remarks.)

Are Vegetation [N], Soil [N], or Hydrology [N] significantly disturbed? Are "Normal Circumstances" present? Yes [X] No

Are Vegetation [N], Soil [N], or Hydrology [N] naturally problematic? (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 [X] No
Hydric Soil Present? Yes [X] No
Wetland Hydrology Present? Yes [X] No
Is the Sampled Area within a Wetland? Yes [X] No
If yes, optional Wetland Site ID: WN4-SJB 013
Remarks: (Explain alternative procedures here or in a separate report.)
- Adjacent to SN4-SJB 004
DRAINAGE WAY THROUGH HAY FIELD

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)
Secondary Indicators (minimum of two required)
[X] Saturation (A3)
[X] Oxidized Rhizospheres on Living Roots (C3)
[X] FAC-Neutral Test (D5)

Field Observations:
Surface Water Present? Yes No [X] Depth (inches): -
Water Table Present? Yes No [X] Depth (inches): -
Saturation Present? Yes [X] No Depth (inches): 7"
Wetland Hydrology Present? Yes [X] No

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

Remarks:

WNY-SJB04

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: NY-Looping City/County: Broome Co. Sampling Date: 9-20-12
 Applicant/Owner: Williams State: NY Sampling Point: Wetland
 Investigator(s): SJB, KRS Section (Township) Range: Windsor
 Landform (hillslope, terrace, etc.): FLOODPLAIN Local relief (concave, convex, none): CONCAVE Slope (%) 1
 Subregion (LRR or MLRA): LRRR Lot: 42 103523 Long: -75.710821 Datum: NAD 83
 Soil Map Unit Name: Ad-Hill Mcl. Fluvaquents Uplands 0-50% NW classification: PEM
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation N* Soil N* or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation N Soil N or Hydrology N naturally problematic? (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 <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID: <u>WNY-SJB-0014-PEM</u>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>FLOODPLAIN OF OCEANUM CREEK, NY-SJB-006</u> <u>+ GRAVEL ACCESS ROAD BISECTS WETLAND</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required, check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>1</u>		
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>1</u>		
Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (inches): <u>5</u>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections) if available: <u>N/A</u>			
Remarks:			

VEGETATION - Use scientific names of plants.

PEM
Sampling Point WNY-SIB-014

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____				Number of Dominant Species That Are OBL, FACW, or FAC <u>2</u> (A)
2. _____				Total Number of Dominant Species Across All Strata <u>3</u> (B)
3. <u>none</u>				Percent of Dominant Species That Are OBL, FACW, or FAC <u>67</u> (AB)
4. _____				
5. _____				
6. _____				
7. _____				
<u>0</u> = Total Cover				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: <u>15</u>)				Total % Cover of _____ Multiply by _____
1. _____				OBL species <u>0</u> x 1 = <u>0</u>
2. _____				FACW species <u>71</u> x 2 = <u>142</u>
3. <u>none</u>				FAC species <u>26</u> x 3 = <u>78</u>
4. _____				FACU species <u>25</u> x 4 = <u>100</u>
5. _____				UPL species <u>0</u> x 5 = <u>0</u>
6. _____				Column Totals <u>122</u> (A) <u>320</u> (B)
7. _____				Prevalence Index = B/A = <u>2.62</u>
<u>0</u> = Total Cover				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: _____)				1 - Rapid Test for Hydrophytic Vegetation
1. <u>Impatiens capensis</u>	<u>24</u>	<u>Y</u>	<u>FACW</u>	<input checked="" type="checkbox"/> 2 - Dominance Test is >50%
2. <u>Aster rovi-belgii</u>	<u>12</u>	<u>N</u>	<u>FACW</u>	<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0
3. <u>Eupatoriadelphus sp*</u>	<u>10</u>	<u>N</u>	<u>-</u>	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
4. <u>Solidago canadensis</u>	<u>25</u>	<u>Y</u>	<u>FACU</u>	Problematic Hydrophytic Vegetation (Explain)
5. <u>Spirca alba</u>	<u>35</u>	<u>Y</u>	<u>FACW</u>	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. <u>Euthamia granifolium</u>	<u>16</u>	<u>N</u>	<u>FAC</u>	
7. _____				Definitions of Vegetation Strata:
8. _____				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
9. _____				Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10. _____				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11. _____				Woody vines - All woody vines greater than 3.28 ft in height.
12. _____				
<u>122</u> = Total Cover				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
Woody Vine Stratum (Plot size: _____)				
1. _____				
2. _____				
3. _____				
4. _____				
_____ = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet)				
<u>* Assumed to be FAC or FACW for purpose of prevalence test.</u>				

SOIL

PEM
Sampling Point WNY-SJB-014

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type	Loc ¹		
0-8	10YR 3/2	100	—	—	—	—	SicL	
8-14	10YR 3/2	75	10YR 3/6	25	C	m	Sic.	

- ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains Location: Pl=Pore lining, M=Matrix
- Hydric Soil Indicators:**
- Histosol (A1)
 - Histic Epipedon (A2)
 - Black Histic (A3)
 - Hydrogen Sulfide (A4)
 - Stratified Layers (A5)
 - Depleted Below Dark Surface (A11)
 - Thick Dark Surface (A12)
 - Sandy Mucky Mineral (S1)
 - Sandy Gleyed Matrix (S4)
 - Sandy Redox (S5)
 - Stripped Matrix (S6)
 - Dark Surface (S7) (LRR R, MLRA 149B)
 - Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
 - Thin Dark Surface (S9) (LRR R, MLRA 149B)
 - Loamy Mucky Mineral (F1) (LRR K, L)
 - Loamy Gleyed Matrix (F2)
 - Depleted Matrix (F3)
 - Redox Dark Surface (F6)
 - Depleted Dark Surface (F7)
 - Redox Depressions (F8)
- Indicators for Problematic Hydric Soils²:**
- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
 - Coast Prairie Redox (A16) (LRR K, L, R)
 - 5 cm Mucky Peat or Feal (S3) (LRR K, L, R)
 - Dark Surface (S7) (LRR K, L, M)
 - Polyvalue Below Surface (S8) (LRR K, L)
 - Thin Dark Surface (S9) (LRR K, L)
 - Iron-Manganese Masses (F12) (LRR K, L, R)
 - Piedmont Floodplain Soils (F19) (MLRA 149B)
 - Mesic Spodic (TAG) (MLRA 144A, 145, 149B)
 - Red Parent Material (F21)
 - Very Shallow Dark Surface (TF12)
 - Other (Explain in Remarks)

Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic:

Restrictive Layer (if observed):

Type: Rock

Depth (inches): 14

Hydric Soil Present? Yes No

Remarks:

WNY-SJB014 PFS

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: NY LOOPING City/County BROOME CO Sampling Date: 9/20/12
 Applicant/Owner: WILLIAMS State: NY Sampling Point: Wetland
 Investigator(s): SJB/KRS Section, Township, Range: _____
 Landform (hill/slope, terrace, etc.): FLOODPLAIN Local relief (concave, convex, none): CONCAVE Slope (%): 0
 Subregion (LRR or MLRA): LRR Lat: 42.103523 Long: -76.716821 Datum: NAD 83
 Soil Map Unit Name: Mc- Annual lands, Finegley silt/clay loam 0-5% (NAI classification) PSS
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No _____ (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes No _____
 Are Vegetation N Soil N or Hydrology N naturally problematic? (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 _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	If yes, optional Wetland Site ID <u>WNY-SJB-014 PFS</u>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Remarks: (Explain alternative procedures here or in a separate report) <u>FLOODPLAIN OF OCCANUM CREEK</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary indicators (minimum of two required)
Primary indicators (minimum of one is required, check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B5)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Filled Soils (C5)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____		
Saturation Present? (includes capillary fringe) Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections) if available <u>N/A</u>		
Remarks:		

FSS

Sampling Point: WNY-SJB-014

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. <u>none</u>	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of _____ Multiply by _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals _____ (A) _____ (B) Prevalence Index = B/A = _____
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Sapling/Shrub Stratum (Plot size <u>15</u>)				
1. <u>SALIX LUCIDA</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>50</u> = Total Cover				
Herb Stratum (Plot size <u>5</u>)				
1. <u>SALIX LUCIDA</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>	
2. <u>ONOCLEA SENSIBILIS</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	
3. <u>SPRAEA ALBA</u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
4. <u>PERSICARIA SAGITTATUM</u>	<u>20</u>	<u>Y</u>	<u>OBL</u>	
5. <u>SOLIDAGO VICINIFERA</u>	<u>15</u>	<u>N</u>	<u>FACW</u>	
6. <u>EUTROCHTIUM MACULATUM</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>115</u> = Total Cover				
Woody Vine Stratum (Plot size <u>15</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. <u>none</u>	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <input type="checkbox"/> 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants 3 in. 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Remarks: (Include photo numbers here or on a separate sheet)				

WNY-SJB-015

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: NY-Looping City/County: Broome Co Sampling Date: 7-20-12
 Applicant/Owner: Williams State: NY Sampling Point: Wetland
 Investigator(s): SJB-KRS Section, Township, Range: Windsor
 Landform (hillslope, terrace, etc.): HILLSLOPE Local relief (concave, convex, none): CONCAVE Slope (%): 4
 Subregion (LRR or MLRA): LRR Lat: 42.02480493 Long: -75.71741672 Datum: NAD83
 Soil Map Unit Name: VOC Volusia Channery silt loam NWI classification: PSS
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (if no, explain in Remarks.)
 Are Vegetation N* Soil N* or Hydrology N significantly disturbed? Are 'Normal Circumstances' present? Yes X No
 Are Vegetation N Soil N or Hydrology N naturally problematic? (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 <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID <u>WNY-SJB-015</u>
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>CLEARING ON FORESTED HILLSLOPE</u> <u>* EASTERN EDGE OF WETLAND EXTENDS INTO CLEARED ROW, WHERE SOILS AND VEG ARE DISTURBED</u>	

HYDROLOGY

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

Field Observations:

Surface Water Present? Yes <u> </u> No <u>X</u>	Depth (inches): <u> </u>	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Water Table Present? Yes <u> </u> No <u>X</u>	Depth (inches): <u> </u>	
Saturation Present? (includes capillary fringe) Yes <u>X</u> No <u> </u>	Depth (inches): <u>4</u>	

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

Remarks

