

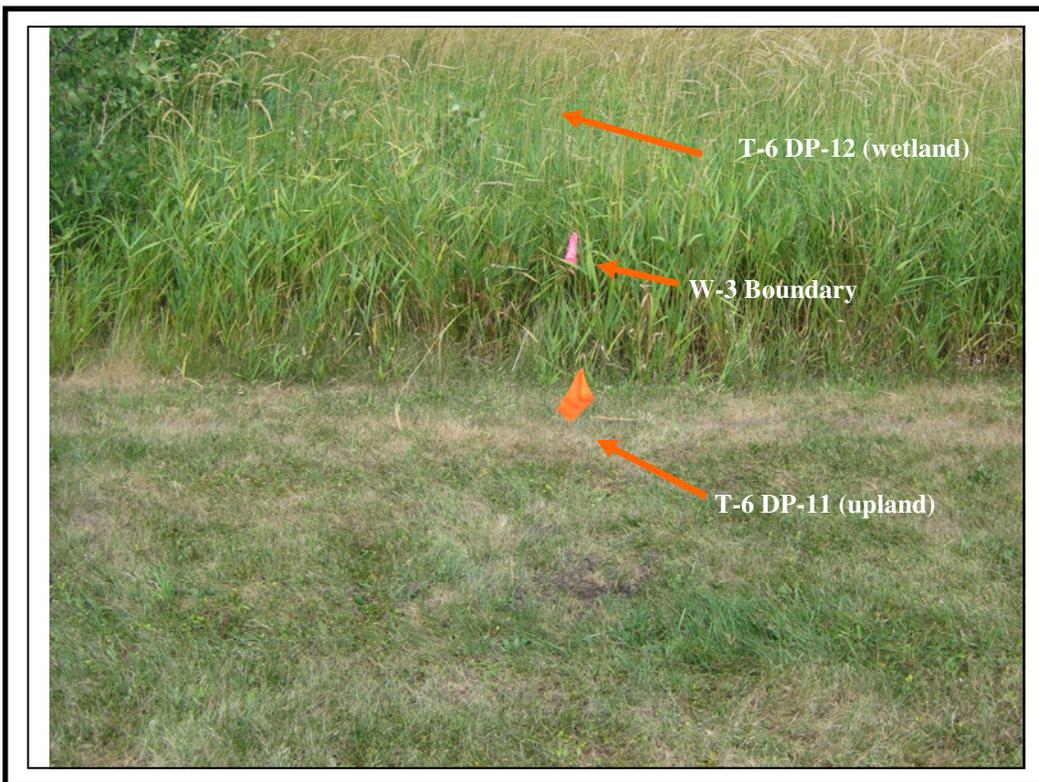
**Photograph 9 (7/24/2012):** East facing view of Transect 4 within W-2.



**Photograph 10 (7/24/2012):** Interior view of W-2, a shrub carr.



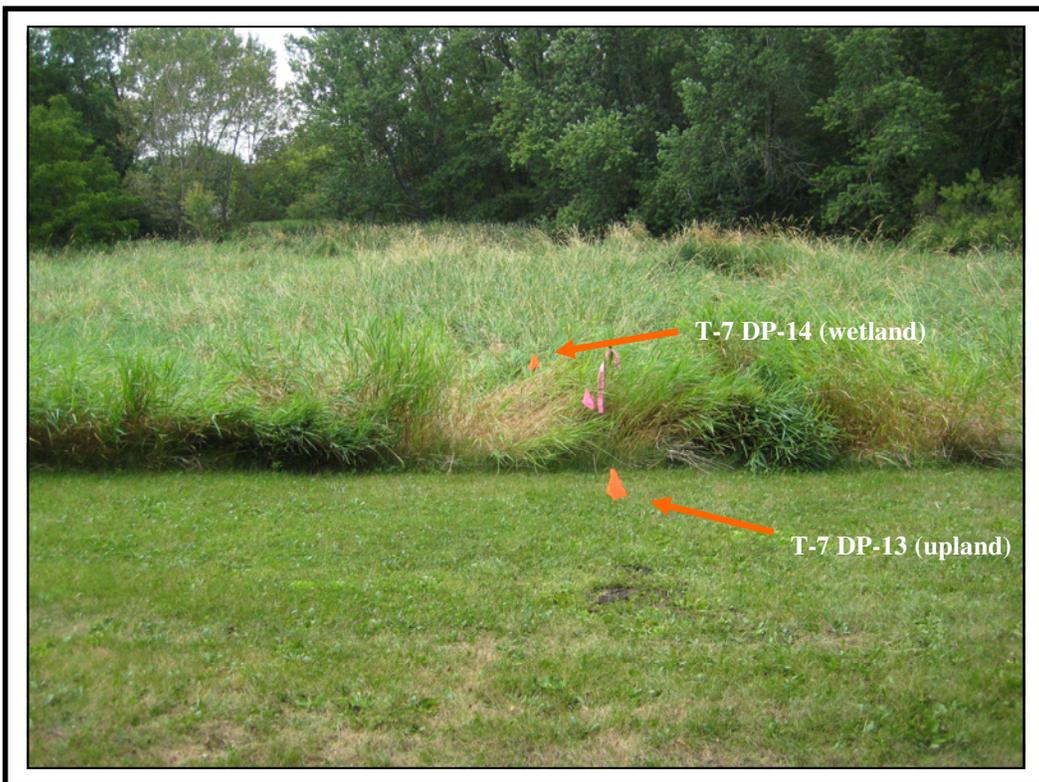
**Photograph 9 (7/24/2012):** North facing view of Transect 5 along W-3's boundary.



**Photograph 10 (7/24/2012):** East facing view of Transect 6 along the W-3 boundary.



**Photograph 9 (7/24/2012):** Overview of W-3, facing east.



**Photograph 10 (7/24/2012):** South facing view of Transect 7 along W-4's boundary.



**Photograph 9 (7/24/2012):** Northeast facing view of Transect 8 along W-4's boundary.



**Photograph 10 (7/24/2012):** Southwest facing view along the W-4 boundary.

## **Appendix 3:**

### **Wetland Determination Data Forms – Midwest Region**

**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-1 DP-1(upl)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex  
 Slope (%): 2-3% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Morley silt loam (MzdB2), 2-6% slopes, eroded WWI Classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  \*X (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 type="checkbox"/> No <input checked="" type="checkbox"/> X Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X If yes, optional wetland site ID: _____
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Remarks: **Climatic conditions are very dry for this time of year -4-6 inches below average precipitation at date of site visit.**

**VEGETATION - Use scientific names for plants.**

Sampling Point: T-1 DP-1(upl)

Tree Stratum (Plot size: <u>n/a</u> )	Absolute % Cover	Dominant Species	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
<u>0</u> = Total Cover			
<b>Sapling/Shrub Stratum (Plot size: <u>15'R</u>)</b>			
1. <u>Malus pumila</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>
2. <u>Rhamnus cathartica</u>	<u>5</u>	<u>N</u>	<u>FAC</u>
3. <u>Cornus alba</u>	<u>5</u>	<u>N</u>	<u>FACW</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
<u>40</u> = Total Cover			
<b>Herb Stratum (Plot size: <u>5'R</u>)</b>			
1. <u>Poa pratensis</u>	<u>80</u>	<u>Y</u>	<u>FAC</u>
2. <u>Solidago canadensis</u>	<u>30</u>	<u>N</u>	<u>FACU</u>
3. <u>Melilotus officinalis</u>	<u>30</u>	<u>N</u>	<u>FACU</u>
4. <u>Rudbeckia hirta</u>	<u>30</u>	<u>N</u>	<u>FACU</u>
5. <u>Solidago rigida</u>	<u>25</u>	<u>N</u>	<u>UPL</u>
6. <u>Daucus carota</u>	<u>20</u>	<u>N</u>	<u>UPL</u>
7. <u>Fraxinus pennsylvanica</u>	<u>5</u>	<u>N</u>	<u>FACW</u>
8. <u>Taraxacum officinale</u>	<u>2</u>	<u>N</u>	<u>FACU</u>
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
13. _____	_____	_____	_____
14. _____	_____	_____	_____
<u>222</u> = Total Cover			
<b>Woody Vine Stratum (Plot size: <u>n/a</u>)</b>			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
<u>0</u> = Total Cover			

<b>Dominance Test Worksheet:</b>	
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</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>50%</u> (A/B)
<b>Prevalence Index Worksheet:</b>	
Total % Cover of:	
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>10</u>	x 2 = <u>20</u>
FAC species <u>85</u>	x 3 = <u>255</u>
FACU species <u>92</u>	x 4 = <u>368</u>
UPL species <u>75</u>	x 5 = <u>375</u>
Column Totals:	<u>262</u> (A) <u>1018</u> (B)
Prevalence Index B/A = <u>3.9</u>	
<b>Hydrophytic Vegetation Indicators:</b>	
_____	Rapid Test for Hydrophytic Vegetation
_____	Dominance Test is >50%
_____	Prevalence Index is ≤ 3.0 <sup>1</sup>
_____	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet)
_____	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
<b>Hydrophytic Vegetation Present?</b>	
Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/> X

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

**The plant community is an upland meadow with some prairie remnant species. The prevalence index is above 3.0 and area lacks hydric soil and wetland hydrology.**



**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-1 DP-2 (wtd)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave  
 Slope (%): 0% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: E2K  
 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 \*\*Yes or Hydrology \*\*Yes 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>W-1</u>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks: <u>*4-6 inches below average precipitation - drought conditions</u> <u>**Problem soil - Mollisol ** This is a depressional wetland with seasonal hydrology</u>	

**VEGETATION - Use scientific names for plants.**

Sampling Point: T-1 DP-2 (wtd)

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	
1. <u>Salix nigra</u>	<u>20</u>	<u>Y</u>	<u>OBL</u>	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)  Total Number of Dominant Species Across All Strata: <u>4</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75%</u> (A/B)
2. <u>Populus tremuloides</u>	<u>2</u>	<u>N</u>	<u>FAC</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>22</u>	= Total Cover		
<b>Prevalence Index Worksheet:</b>				
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 = _____				
<b>Hydrophytic Vegetation Indicators:</b>				
<u>X</u> Rapid Test for Hydrophytic Vegetation				
_____ Dominance Test is >50%				
_____ Prevalence Index is ≤ 3.0 <sup>1</sup>				
_____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet)				
_____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)				
<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Remarks: (Include photo numbers here or on a separate sheet.)				
<b>The hydrophytic vegetation criterion is met. The plant community is shrub-carr.</b>				

SOIL

Sampling Point: T-1 DP-2 (wtd)

**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 <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/1	100	-				silty clay loa	
4-14	10YR 3/1	95	10YR 5/8	5	C	M	silty clay loa	
14-20	10YR 5/2	90	10YR 5/8	10	C	M	silty clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- Histosol (A1)  Sandy Gleyed Matrix (S4)
- Histic Epipedon (A2)  Sandy Redox (S5)
- Black Histic (A3)  Stripped Matrix (S6)
- Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1)
- Stratified Layers (A5)  Loamy Gleyed Matrix (F2)
- 2 cm Much (A10)  Depleted Matrix (F3)
- Depleted Below Dark Surface (A11)  Redox Dark Surface (F6)
- Thick Dark Surface (A12)  Depleted Dark Surface (F7)
- Sandy Mucky Mineral (S1)  Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Coast Prairie Redox (A16) (LRR,K,L,R)
- Dark Surface (S7) (LRR,K,L)
- 5 cm mucky peat or peat (S3) (LRR,K,L)
- Iron-Manganese Masses (F12) (LRR,K,L,R)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: none  
 Depth (inches): n/a

Hydric Soil Present? Yes X No     

Remarks: **The hydric soil criterion is met.**

**HYDROLOGY**

**Wetland Hydrology Indicators:**

- 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)  True Aquatic Plants (B14)
  - Water Marks (B1)  Hydrogen Sulfide Odor (C1)
  - Sediment Deposits (B2)  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)  Gauge or Well Data (D9)
  - Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorph Position (D2)
- 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      No X Depth (inches):       
 (includes capillary fringe)

Wetland Hydrology Present? Yes X No     

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

**WWI Map, NRCS Soils Map, aeriels, AHPS Precipitation data, Milwaukee County WETS table**

Remarks: **Seasonal wetland hydrology is present, but secondary indicators were observed.**

**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-2 DP-3(upl)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex  
 Slope (%): 2-3% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \*X (if no, explain in Remarks)  
 Are Vegetation No Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation No Soil \*\*Yes 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 _____ No <u>X</u> Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional wetland site ID: _____  Remarks: <b>*4-6 inches below average precipitation - drought conditions</b> <b>**The soil is a mollisol containing a dark surface horizon, but vegetation and landscape position are indicative of uplands.</b>
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**VEGETATION - Use scientific names for plants.**

Sampling Point: T-2 DP-3(upl)

Tree Stratum (Plot size: <u>n/a</u> )	Absolute % Cover	Dominant Species	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</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>50%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>20</u> x 2 = <u>40</u> FAC species <u>95</u> x 3 = <u>285</u> FACU species <u>20</u> x 4 = <u>80</u> UPL species <u>35</u> x 5 = <u>175</u> Column Totals: <u>170</u> (A) <u>580</u> (B)  Prevalence Index B/A = <u>3.4</u>
Sapling/Shrub Stratum (Plot size: <u>15'R</u> )				
1. <u>Malus pumila</u>	<u>5</u>	<u>Y</u>	<u>UPL</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>5</u>	= Total Cover		
Herb Stratum (Plot size: <u>5'R</u> )				
1. <u>Poa pratensis</u>	<u>95</u>	<u>Y</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Indicators:</b> _____ Rapid Test for Hydrophytic Vegetation _____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Daucus carota</u>	<u>30</u>	<u>N</u>	<u>UPL</u>	
3. <u>Solidago canadensis</u>	<u>15</u>	<u>N</u>	<u>FACU</u>	
4. <u>Phalaris arundinacea</u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
5. <u>Euthamia graminifolia</u>	<u>8</u>	<u>N</u>	<u>FACW</u>	
6. <u>Ambrosia artemisiifolia</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
7. <u>Vitis riparia</u>	<u>2</u>	<u>N</u>	<u>FACW</u>	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>165</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>n/a</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)  
**The hydrophytic vegetation criterion is not met. The prevalence index is above 3.0. Hydric soil present but not wetland hydrology.**

**SOIL**

Sampling Point: T-2 DP-3(upl)

**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 <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 2/1	100	-				silty clay loam	
6-17	10YR 2/1	90	10YR 5/8	5	C	M	silty clay	
			10YR 3/4	5	C	M		
17-21	10YR 5/2	95	10YR 5/8	5	C	M	silty clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- Histosol (A1)  Sandy Gleyed Matrix (S4)
- Histic Epipedon (A2)  Sandy Redox (S5)
- Black Histic (A3)  Stripped Matrix (S6)
- Hydrogen Sulfide (A4)  Loamy Mucky Mineral (F1)
- Stratified Layers (A5)  Loamy Gleyed Matrix (F2)
- 2 cm Much (A10)  Depleted Matrix (F3)
- Depleted Below Dark Surface (A11)  Redox Dark Surface (F6)
- Thick Dark Surface (A12)  Depleted Dark Surface (F7)
- Sandy Mucky Mineral (S1)  Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Coast Prairie Redox (A16) (LRR,K,L,R)
- Dark Surface (S7) (LRR,K,L)
- 5 cm mucky peat or peat (S3) (LRR,K,L)
- Iron-Manganese Masses (F12) (LRR,K,L,R)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: none  
 Depth (inches): n/a

Hydric Soil Present? Yes X No     

Remarks: **The hydric soil criteria is met, although vegetation and hydrology indicative of uplands.**

**HYDROLOGY**

**Wetland Hydrology Indicators:**

- 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)  True Aquatic Plants (B14)
  - Water Marks (B1)  Hydrogen Sulfide Odor (C1)
  - Sediment Deposits (B2)  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)  Gauge or Well Data (D9)
  - Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)

**Secondary Indicators (minimum of two required)**

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes  No  Depth (inches):             
 Water Table Present? Yes  No  Depth (inches):             
 Saturation Present? Yes  No  Depth (inches):             
 (includes capillary fringe)

Wetland Hydrology Present? Yes  No

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

**WWI Map, NRCS Soils Map, aeriels, AHPS Precipitation data, Milwaukee County WETS table**

Remarks: **No wetland hydrology indicators present. There is a subtle topo break between the upland and wetland boundary.**

**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-2 DP-4 (wtd)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave  
 Slope (%): 0% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: E2K  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes      No \*X (if no, explain in Remarks)  
 Are Vegetation No Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No       
 Are Vegetation No Soil \*\*Yes or Hydrology \*\*Yes 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> If yes, optional wetland site ID: <u>W-1</u>
Remarks: <b>*4-6 inches below average precipitation - drought conditions</b> <b>**Problem soil - Mollisol ** This is a depressional wetland with seasonal hydrology</b>	

**VEGETATION - Use scientific names for plants.**

Sampling Point: T-2 DP-4 (wtd)

Tree Stratum (Plot size: <u>n/a</u> )	Absolute % Cover	Dominant Species	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	<u>0</u>	= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>n/a</u> )			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	<u>0</u>	= Total Cover	
Herb Stratum (Plot size: <u>5'R</u> )			
1. <u>Poa pratensis</u>	<u>95</u>	<u>Y</u>	<u>FAC</u>
2. <u>Phalaris arundinacea</u>	<u>25</u>	<u>N</u>	<u>FACW</u>
3. <u>Solidago gigantea</u>	<u>20</u>	<u>N</u>	<u>FACW</u>
4. <u>Euthamia graminifolia</u>	<u>10</u>	<u>N</u>	<u>FACW</u>
5. <u>Persicaria amphibia</u>	<u>10</u>	<u>N</u>	<u>OBL</u>
6. <u>Juncus dudleyi</u>	<u>2</u>	<u>N</u>	<u>FACW</u>
7. <u>Agrostis gigantea</u>	<u>2</u>	<u>N</u>	<u>FACW</u>
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
13. _____	_____	_____	_____
14. _____	_____	_____	_____
	<u>164</u>	= Total Cover	
Woody Vine Stratum (Plot size: <u>n/a</u> )			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
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)

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**Prevalence Index Worksheet:**

Total % Cover of:	Multiply by:
OBL species <u>10</u>	x 1 = <u>10</u>
FACW species <u>59</u>	x 2 = <u>118</u>
FAC species <u>95</u>	x 3 = <u>285</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>164</u> (A)	<u>413</u> (B)

Prevalence Index B/A = 2.5

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**Hydrophytic Vegetation Indicators:**

<u>X</u>	Rapid Test for Hydrophytic Vegetation
<u>X</u>	Dominance Test is >50%
<u>X</u>	Prevalence Index is ≤ 3.0 <sup>1</sup>
_____	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet)
_____	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)

<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

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**Hydrophytic Vegetation Present?** Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)  
**The hydrophytic vegetation criterion is met. This is a fresh (wet) meadow community dominated by Kentucky blue grass. Prevalence Index was completed to confirm wetland vegetation since KGB also commonly seen in uplands.**



**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-3 DP-5 (upl)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex  
 Slope (%): 3-5% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: none mapped  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (if no, explain in Remarks)  
 Are Vegetation \*\*Yes Soil \*\*Yes or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation No Soil \*\*Yes 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 type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional wetland site ID: _____  Remarks: <b>*4-6 inches below average precipitation - drought conditions</b> <b>**The soil is a mollisol containing a dark surface horizon **mowed grass lawn and mixed matrix in soils profile indicating past disturbance</b>
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**VEGETATION - Use scientific names for plants.**

Sampling Point: T-3 DP-5 (upl)

Tree Stratum (Plot size: <u>n/a</u> )	Absolute % Cover	Dominant Species	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</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>50%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>80</u> x 3 = <u>240</u> FACU species <u>65</u> x 4 = <u>260</u> UPL species <u>3</u> x 5 = <u>15</u> Column Totals: <u>148</u> (A) <u>515</u> (B)  Prevalence Index B/A = <u>3.5</u>
Sapling/Shrub Stratum (Plot size: <u>n/a</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>5'R</u> )				
1. <u>Poa pratensis</u>	<u>80</u>	<u>Y</u>	<u>FAC</u>	<b>Hydrophytic Vegetation Indicators:</b> _____ Rapid Test for Hydrophytic Vegetation _____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Elytrigia repens</u>	<u>60</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Taraxacum officinale</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
4. <u>Daucus carota</u>	<u>3</u>	<u>N</u>	<u>UPL</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>148</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>n/a</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
<b>Hydrophytic Vegetation Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				

Remarks: (Include photo numbers here or on a separate sheet.)  
**The hydrophytic vegetation criterion is not met since it does not pass the PI and lacks hydric soil/wetland hydrology. This is a maintained (mowed) lawn.**



**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-3 DP-6 (wtd)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave  
 Slope (%): 0% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: E2K  
 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 \*\*Yes or Hydrology \*\*Yes 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"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology 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"/> If yes, optional wetland site ID: <u>W-1</u>
Remarks: <b>*4-6 inches below average precipitation - drought conditions</b> <b>**Problem soil - Mollisol ** This is a depressional wetland with seasonal hydrology</b>	

**VEGETATION - Use scientific names for plants.**

Sampling Point: T-3 DP-6 (wtd)

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	
1. <u><i>Populus deltoides</i></u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	<b>Dominance Test Worksheet:</b> 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)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>20</u>	= Total Cover		
<b>Sapling/Shrub Stratum (Plot size: <u>15'R</u>)</b>				
1. <u><i>Salix interior</i></u>	<u>40</u>	<u>Y</u>	<u>FACW</u>	<b>Prevalence Index Worksheet:</b> 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 = _____
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>40</u>	= Total Cover		
<b>Herb Stratum (Plot size: <u>5'R</u>)</b>				
1. <u><i>Phalaris arundinacea</i></u>	<u>90</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤ 3.0 <sup>1</sup> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u><i>Poa pratensis</i></u>	<u>30</u>	<u>N</u>	<u>FAC</u>	
3. <u><i>Euthamia graminifolia</i></u>	<u>30</u>	<u>N</u>	<u>FACW</u>	
4. <u><i>Lycopus americanus</i></u>	<u>5</u>	<u>N</u>	<u>OBL</u>	
5. <u><i>Persicaria amphibia</i></u>	<u>5</u>	<u>N</u>	<u>OBL</u>	
6. <u><i>Poa palustris</i></u>	<u>2</u>	<u>N</u>	<u>FACW</u>	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>162</u>	= Total Cover		
<b>Woody Vine Stratum (Plot size: <u>n/a</u>)</b>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)  
**The hydrophytic vegetation criterion is met. The plant community is shrub-carr.**



WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-4 DP-7 (upl)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex  
 Slope (%): 2-3% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_\_\_\_\_ No \*X (if no, explain in Remarks)  
 Are Vegetation No Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation \*\*Yes Soil \*\*Yes 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 _____	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	If yes, optional wetland site ID:	<u>n/a</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	Remarks: <u>*4-6 inches below average precipitation - drought conditions</u>		
<p align="center"><b>**Soil is a mollisol with a dark surface horizon, but vegetation and landscape position are indicative of uplands.</b></p>					

**VEGETATION - Use scientific names for plants.**

Sampling Point: T-4 DP-7 (upl)

Tree Stratum (Plot size: <u>n/a</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b>	
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>5</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>40%</u> (A/B)
4. _____	_____	_____	_____	<b>Prevalence Index Worksheet:</b>	
5. _____	_____	_____	_____	Total % Cover of:	Multiply by:
6. _____	_____	_____	_____	OBL species _____	x 1 = _____
7. _____	_____	_____	_____	FACW species _____	x 2 = _____
<u>0</u> = Total Cover				FAC species _____	x 3 = _____
				FACU species _____	x 4 = _____
				UPL species _____	x 5 = _____
				Column Totals:	_____ (A) _____ (B)
				Prevalence Index B/A =	_____
				<b>Hydrophytic Vegetation Indicators:</b>	
				_____	Rapid Test for Hydrophytic Vegetation
				_____	Dominance Test is >50%
				_____	Prevalence Index is ≤ 3.0 <sup>1</sup>
				_____	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet)
				_____	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
				<b>Hydrophytic Vegetation Present?</b> Yes <u>*X</u> No _____	
<b>Sapling/Shrub Stratum (Plot size: <u>15'R</u>)</b>					
1. <u>Cornus racemosa</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>		
2. <u>Lonicera x bella</u>	<u>10</u>	<u>Y</u>	<u>FACU</u>		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
<u>20</u> = Total Cover					
<b>Herb Stratum (Plot size: <u>5'R</u>)</b>					
1. <u>Poa pratensis</u>	<u>60</u>	<u>Y</u>	<u>FAC</u>		
2. <u>Daucus carota</u>	<u>60</u>	<u>Y</u>	<u>UPL</u>		
3. <u>Solidago canadensis</u>	<u>50</u>	<u>Y</u>	<u>FACU</u>		
4. <u>Trifolium hybridum</u>	<u>10</u>	<u>N</u>	<u>FAC</u>		
5. <u>Symphotrichum novae-angliae</u>	<u>5</u>	<u>N</u>	<u>FACW</u>		
6. <u>Cichorium intybus</u>	<u>5</u>	<u>N</u>	<u>FACU</u>		
7. <u>Fraxinus pennsylvanica</u>	<u>5</u>	<u>N</u>	<u>FACW</u>		
8. <u>Erigeron annuus</u>	<u>2</u>	<u>N</u>	<u>FACU</u>		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
13. _____	_____	_____	_____		
14. _____	_____	_____	_____		
<u>197</u> = Total Cover					
<b>Woody Vine Stratum (Plot size: <u>n/a</u>)</b>					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
<u>0</u> = Total Cover					

Remarks: (Include photo numbers here or on a separate sheet.)  
**\*Vegetation is met but does not pass PI and data point lacks hydric soil and wetland hydrology. Poa pratensis, a FAC species, is more indicative of uplands in this circumstance.**



**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-4 DP-8 (wtd)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): slightly concave  
 Slope (%): 0% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: E2K  
 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 \*\*Yes or Hydrology \*\*Yes 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"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology 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"/> If yes, optional wetland site ID: <u>W-2</u>
Remarks: <b>*4-6 inches below average precipitation - drought conditions</b> <b>**Problem soil - Mollisol ** depressional wetland with seasonal wetland hydrology</b>	

**VEGETATION - Use scientific names for plants.**

Sampling Point: T-4 DP-8 (wtd)

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status		
1. <u>Populus deltoides</u>	<u>50</u>	<u>Y</u>	<u>FAC</u>	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A)  Total Number of Dominant Species Across All Strata: <u>5</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)	
2. <u>Fraxinus pennsylvanica</u>	<u>10</u>	<u>N</u>	<u>FACW</u>		
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
	<u>60</u>	= Total Cover			
<b>Sapling/Shrub Stratum (Plot size: <u>15'R</u>)</b>					
1. <u>Salix interior</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>	<b>Prevalence Index Worksheet:</b> 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 = _____	
2. <u>Salix discolor</u>	<u>10</u>	<u>N</u>	<u>FACW</u>		
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
	<u>50</u>	= Total Cover			
<b>Herb Stratum (Plot size: <u>5'R</u>)</b>					
1. <u>Phalaris arundinacea</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>		<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Poa palustris</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>		
3. <u>Apocynum cannabinum</u>	<u>40</u>	<u>Y</u>	<u>FAC</u>		
4. <u>Lycopus americanus</u>	<u>5</u>	<u>N</u>	<u>OBL</u>		
5. <u>Carex vulpinoidea</u>	<u>3</u>	<u>N</u>	<u>OBL</u>		
6. <u>Symphotrichum puniceum</u>	<u>3</u>	<u>N</u>	<u>OBL</u>		
7. <u>Daucus carota</u>	<u>2</u>	<u>N</u>	<u>UPL</u>		
8. _____					
9. _____					
10. _____					
11. _____					
12. _____					
13. _____					
14. _____					
	<u>143</u>	= Total Cover			
<b>Woody Vine Stratum (Plot size: <u>n/a</u>)</b>					
1. _____				<b>Hydrophytic Vegetation Present?</b> 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.)  
**The hydrophytic vegetation criterion is met. Plant community is a shrub carr wetland.**



**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-5 DP-9 (upl)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex  
 Slope (%): 2-3% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Blount silt loam (BIA), 1-3% slopes WWI Classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes      No \*X (if no, explain in Remarks)  
 Are Vegetation \*\*Yes Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No       
 Are Vegetation No Soil \*\*Yes 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 <u>    </u> Hydric Soil Present? Yes <u>    </u> No <u>X</u> Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>    </u> No <u>X</u> If yes, optional wetland site ID: <u>    </u>
Remarks: <b>*4-6 inches below average precipitation - drought conditions</b> <b>**Mowed grass      **Soil has dark surface horizon, but vegetation and landscape position are indicative of uplands.</b>	

**VEGETATION - Use scientific names for plants.**

Sampling Point: T-5 DP-9 (upl)

Tree Stratum (Plot size: <u>n/a</u> )	Absolute % Cover	Dominant Species	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>1</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>n/a</u> )				<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>110</u> x 3 = <u>330</u> FACU species <u>25</u> x 4 = <u>100</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>135</u> (A) <u>430</u> (B)  Prevalence Index B/A = <u>3.2</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>5'R</u> )				<b>Hydrophytic Vegetation Indicators:</b> _____ Rapid Test for Hydrophytic Vegetation _____ <u>X</u> Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>Poa pratensis</u>	<u>100</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Plantago major</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	
3. <u>Taraxacum officinale</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
4. <u>Elytrigia repens</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
5. <u>Trifolium repens</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>135</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>n/a</u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No <u>    </u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	_____	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)  
**This is a manicured area - mowed lawn. *Poa pratensis* is planted and this area lacks hydric soil and wetland hydrology.**



**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-5 DP-10 (wtd)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): slightly concave  
 Slope (%): 0% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: E2K  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes        No \*X (if no, explain in Remarks)  
 Are Vegetation No Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No         
 Are Vegetation No Soil \*\*Yes or Hydrology \*\*Yes 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> If yes, optional wetland site ID: <u>W-3</u>
Remarks: <b>*4-6 inches below average precipitation - drought conditions</b> <b>**Problem soil - Mollisol ** This is a depressional area with seasonal wetland hydrology.</b>	

**VEGETATION - Use scientific names for plants.**

Sampling Point: T-5 DP-10 (wtd)

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	
1. <u><i>Fraxinus pennsylvanica</i></u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	<b>Dominance Test Worksheet:</b> 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)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>20</u>	= Total Cover		<b>Prevalence Index Worksheet:</b> 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 = _____
Sapling/Shrub Stratum (Plot size: <u>n/a</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>5'R</u> )				
1. <u><i>Carex stricta</i></u>	<u>60</u>	<u>Y</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Rapid Test for Hydrophytic Vegetation _____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u><i>Phalaris arundinacea</i></u>	<u>40</u>	<u>Y</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>100</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>n/a</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)  
**The hydrophytic vegetation criterion is met. This is a fresh (wet) meadow plant community.**



**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-6 DP-11 (upl)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex  
 Slope (%): 2-3% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: none mapped  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (if no, explain in Remarks)  
 Are Vegetation \*\*Yes Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation No Soil Yes 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 type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, optional wetland site ID: <u>n/a</u>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks: <b>*4-6 inches below average precipitation - drought conditions</b> <b>**Mowed grass      **Soil contains hydric characteristics and are problematic (Mollisol), but veg./ landscape position are indicative of uplands.</b>	

**VEGETATION - Use scientific names for plants.**

Sampling Point: T-6 DP-11 (upl)

Tree Stratum (Plot size: <u>n/a</u> )	Absolute % Cover	Dominant Species	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</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>50%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>n/a</u> )				<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>105</u> x 3 = <u>315</u> FACU species <u>50</u> x 4 = <u>200</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>155</u> (A) <u>515</u> (B)  Prevalence Index B/A = <u>3.3</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>5'R</u> )				<b>Hydrophytic Vegetation Indicators:</b> _____ Rapid Test for Hydrophytic Vegetation _____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>Poa pratensis</u>	<u>100</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Trifolium repens</u>	<u>40</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Taraxacum officinale</u>	<u>10</u>	<u>N</u>	<u>FACU</u>	
4. <u>Plantago major</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>155</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>n/a</u> )				<b>Hydrophytic Vegetation Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)  
**The hydrophytic vegetation criterion is not met. This data point does not pass PI or exhibit morphological adaptations.**



**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-6 DP-12 (wtd)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave  
 Slope (%): 0% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: E2K  
 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 \*\*Yes or Hydrology \*\*Yes 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>W-3</u>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks: <b>*4-6 inches below average precipitation - drought conditions</b> <b>**Problem soil - Mollisol ** This is a depressional wetland with seasonal wetland hydrology.</b>	

**VEGETATION - Use scientific names for plants.**

Sampling Point: T-6 DP-12 (wtd)

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	
1. <u>Populus tremuloides</u>	<u>30</u>	<u>Y</u>	<u>FAC</u>	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)  Total Number of Dominant Species Across All Strata: <u>4</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>30</u>	= Total Cover		<b>Prevalence Index Worksheet:</b> 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 = _____
Sapling/Shrub Stratum (Plot size: <u>15'R</u> )				
1. <u>Populus tremuloides</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>10</u>	= Total Cover		
Herb Stratum (Plot size: <u>5'R</u> )				
1. <u>Carex stricta</u>	<u>60</u>	<u>Y</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤ 3.0 <sup>1</sup> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Phalaris arundinacea</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>110</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>n/a</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)  
**The hydrophytic vegetation criterion is met. This is within a fresh wet/sedge meadow community.**



**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-7 DP-13 (upl)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex  
 Slope (%): ~5% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Houghton muck (Ht), 0-2% slopes WWI Classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (if no, explain in Remarks)  
 Are Vegetation \*\*Yes 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 <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional wetland site ID: <u>n/a</u>
Remarks: <b>*4-6 inches below average precipitation - drought conditions</b> <b>**Mowed lawn</b>	

**VEGETATION - Use scientific names for plants.**

Sampling Point: T-7 DP-13 (upl)

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status																															
1. <u><i>Fraxinus pennsylvanica</i></u>	<u>10</u>	<u>Y</u>	<u>FACW</u>	<b>Dominance Test Worksheet:</b> 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>67%</u> (A/B)																														
2. _____	_____	_____	_____																															
3. _____	_____	_____	_____																															
4. _____	_____	_____	_____																															
5. _____	_____	_____	_____																															
6. _____	_____	_____	_____																															
7. _____	_____	_____	_____																															
	<u>10</u>	= Total Cover																																
Sapling/Shrub Stratum (Plot size: <u>N/A</u> )				<b>Prevalence Index Worksheet:</b> Total % Cover of: <table style="margin-left: 20px; border-collapse: collapse;"> <tr> <td>OBL species</td><td align="center"><u>0</u></td><td>x 1 =</td><td align="center"><u>0</u></td><td>Multiply by:</td></tr> <tr> <td>FACW species</td><td align="center"><u>10</u></td><td>x 2 =</td><td align="center"><u>20</u></td><td></td></tr> <tr> <td>FAC species</td><td align="center"><u>75</u></td><td>x 3 =</td><td align="center"><u>225</u></td><td></td></tr> <tr> <td>FACU species</td><td align="center"><u>70</u></td><td>x 4 =</td><td align="center"><u>280</u></td><td></td></tr> <tr> <td>UPL species</td><td align="center"><u>0</u></td><td>x 5 =</td><td align="center"><u>0</u></td><td></td></tr> <tr> <td>Column Totals:</td><td align="center"><u>155</u></td><td>(A)</td><td align="center"><u>525</u></td><td>(B)</td></tr> </table> Prevalence Index B/A = <u>3.4</u>	OBL species	<u>0</u>	x 1 =	<u>0</u>	Multiply by:	FACW species	<u>10</u>	x 2 =	<u>20</u>		FAC species	<u>75</u>	x 3 =	<u>225</u>		FACU species	<u>70</u>	x 4 =	<u>280</u>		UPL species	<u>0</u>	x 5 =	<u>0</u>		Column Totals:	<u>155</u>	(A)	<u>525</u>	(B)
OBL species	<u>0</u>	x 1 =	<u>0</u>		Multiply by:																													
FACW species	<u>10</u>	x 2 =	<u>20</u>																															
FAC species	<u>75</u>	x 3 =	<u>225</u>																															
FACU species	<u>70</u>	x 4 =	<u>280</u>																															
UPL species	<u>0</u>	x 5 =	<u>0</u>																															
Column Totals:	<u>155</u>	(A)	<u>525</u>		(B)																													
1. _____	_____	_____	_____																															
2. _____	_____	_____	_____																															
3. _____	_____	_____	_____																															
4. _____	_____	_____	_____																															
5. _____	_____	_____	_____																															
6. _____	_____	_____	_____																															
7. _____	_____	_____	_____																															
	<u>0</u>	= Total Cover																																
Herb Stratum (Plot size: <u>5'R</u> )																																		
1. <u><i>Poa pratensis</i></u>	<u>60</u>	<u>Y</u>	<u>FAC</u>																															
2. <u><i>Taraxacum officinale</i></u>	<u>40</u>	<u>Y</u>	<u>FACU</u>																															
3. <u><i>Trifolium repens</i></u>	<u>25</u>	<u>N</u>	<u>FACU</u>																															
4. <u><i>Plantago major</i></u>	<u>15</u>	<u>N</u>	<u>FAC</u>																															
5. <u><i>Glechoma hederacea</i></u>	<u>5</u>	<u>N</u>	<u>FACU</u>																															
6. _____	_____	_____	_____																															
7. _____	_____	_____	_____																															
8. _____	_____	_____	_____																															
9. _____	_____	_____	_____																															
10. _____	_____	_____	_____																															
11. _____	_____	_____	_____																															
12. _____	_____	_____	_____																															
13. _____	_____	_____	_____																															
14. _____	_____	_____	_____																															
	<u>145</u>	= Total Cover																																
Woody Vine Stratum (Plot size: <u>n/a</u> )																																		
1. _____	_____	_____	_____																															
2. _____	_____	_____	_____																															
3. _____	_____	_____	_____																															
4. _____	_____	_____	_____																															
	<u>0</u>	= Total Cover																																
<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																		

Remarks: (Include photo numbers here or on a separate sheet.)  
**The hydrophytic vegetation criterion is met due to the dominance of *Poa pratensis*. *Poa pratensis* is more reflective of uplands in this circumstance.**



**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-7 DP-14 (wtd)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): slightly concave  
 Slope (%): 0% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Houghton muck (Ht), 0-2% slopes WWI Classification: E2K  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  \*X (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 \*\*Yes or Hydrology \*\*Yes 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"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology 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"/> If yes, optional wetland site ID: <u>W-4</u>
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Remarks: **\*4-6 inches below average precipitation - drought conditions**  
**\*\*Problem soil - Mollisol \*\* This is a depressional wetland with seasonal wetland hydrology.**

**VEGETATION - Use scientific names for plants.**

Sampling Point: T-7 DP-14 (wtd)

Tree Stratum (Plot size: <u>n/a</u> )	Absolute % Cover	Dominant Species	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
<u>0</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>n/a</u> )			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
<u>0</u> = Total Cover			
Herb Stratum (Plot size: <u>5'R</u> )			
1. <u>Phalaris arundinacea</u>	<u>100</u>	<u>Y</u>	<u>FACW</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
13. _____	_____	_____	_____
14. _____	_____	_____	_____
<u>100</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>n/a</u> )			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
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:**

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤ 3.0<sup>1</sup>

\_\_\_\_\_ Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on separate sheet)

\_\_\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

---

**Hydrophytic Vegetation Present?** Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)  
**The hydrophytic vegetation criterion is met. This is a fresh (wet) meadow plant community.**



**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-8 DP-15 (upl)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex  
 Slope (%): 3-5% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Blount silt loam (BIA), 1-3% slopes WWI Classification: none  
 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 type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional wetland site ID: _____
Remarks: <b>*4-6 inches below average precipitation - drought conditions</b>	

**VEGETATION - Use scientific names for plants.**

Sampling Point: T-8 DP-15 (upl)

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	
1. <u>Juglans nigra</u>	<u>80</u>	<u>Y</u>	<u>FACU</u>	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>80</u>	= Total Cover		
<b>Sapling/Shrub Stratum (Plot size: <u>15'R</u>)</b>				
1. <u>Rhamnus cathartica</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>10</u>	= Total Cover		
<b>Herb Stratum (Plot size: <u>5'R</u>)</b>				
1. <u>Festuca pratensis</u>	<u>95</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Aster sagittifolius</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Poa pratensis</u>	<u>20</u>	<u>N</u>	<u>FAC</u>	
4. <u>Geum canadense</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	
5. <u>Hackelia virginiana</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
6. <u>Erigeron annuus</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
13. _____				
14. _____				
	<u>175</u>	= Total Cover		
<b>Woody Vine Stratum (Plot size: <u>n/a</u>)</b>				
1. _____				
2. _____				
3. _____				
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: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25% (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:**

\_\_\_\_\_ Rapid Test for Hydrophytic Vegetation

\_\_\_\_\_ Dominance Test is >50%

\_\_\_\_\_ Prevalence Index is ≤ 3.0<sup>1</sup>

\_\_\_\_\_ Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on separate sheet)

\_\_\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)  
**The hydrophytic vegetation criterion is not met. This data point is located within a black walnut grove adjacent to the wetland.**



**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012  
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-8 DP-16 (wtd)  
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave  
 Slope (%): 0% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2  
 Soil Map Unit Name: Houghton muck (Ht), 0-2% slopes WWI Classification: E2K  
 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 \*\*Yes or Hydrology \*\*Yes 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"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology 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"/> If yes, optional wetland site ID: <u>W-4</u>
Remarks: <b>*4-6 inches below average precipitation - drought conditions</b> <b>**Problem soil - Mollisol ** This is a depressional wetland with seasonal wetland hydrology.</b>	

**VEGETATION - Use scientific names for plants.**

Sampling Point: T-8 DP-16 (wtd)

Tree Stratum (Plot size: <u>n/a</u> )	Absolute % Cover	Dominant Species	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>1</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		<b>Prevalence Index Worksheet:</b> 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 = _____
Sapling/Shrub Stratum (Plot size: <u>n/a</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Rapid Test for Hydrophytic Vegetation _____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: <u>5'R</u> )				
1. <u>Phalaris arundinacea</u>	<u>100</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>100</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>n/a</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)  
**The hydrophytic vegetation criterion is met. This is a fresh (wet) meadow plant community - monotypic reed canary grass.**







**GROTH  
DESIGN  
GROUP**

N58 W6181 COLUMBIA RD.  
P.O. BOX 332  
CEDARBURG, WISCONSIN 53012  
PH: (262) 377-8001  
FX: (262) 377-8003

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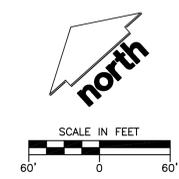
Natural Resource Feature	Protection Standard Based Upon Zoning District Type (circle applicable standard from Table 15-4.0100 for the type of zoning district in which the parcel is located)			Acres of Land in Resource Feature	Acres of Land Required to be Preserved	Acres of Land to be Impacted	Acres of Land Required to be Mitigated	Acres of Land to be Mitigated*
	Agricultural District	Residential District	Non-Residential District					
Steep Slopes								
10-19%	0	0.6	0.4	X	0.00	0.00	0.00	N/A
20-30%	0.65	0.75	0.7	X	0.00	0.00	0.00	N/A
30% +	0.9	0.85	0.8	X	0.00	0.00	0.00	N/A
Woodlands & Forests:								
Mature	0.7	0.7	0.7	X	2.38	1.66	0.34	0.00
Young	0.5	0.5	0.5	X	0.00	0.00	0.00	0.00
Lakes & Ponds	1	1	1	X	0.00	0.00	0.00	0.00
Streams	1	1	1	X	0.00	0.00	0.00	0.00
Shore Buffer	1	1	1	X	0.00	0.00	0.00	0.00
Floodplains/Floodlands	1	1	1	X	0.00	0.00	0.00	0.00
Wetland Buffers	1	1	1	X	2.27	2.27	0.26	0.00
Wetlands & Shoreland Wetlands	1	1	1	X	4.78	4.78	0.06	0.00
Wetland Setback	1	1	1	X	0.00	0.00	0.00	0.00
TOTAL RESOURCE PROTECTION LAND (Total of Acres of Land in Resource Required to be Protected)					= 8.7075 Acres			



**LEGEND**

	WETLAND		WETLAND BUFFER DISTURBANCE
	WETLAND BUFFER		WETLAND SETBACK DISTURBANCE
	WETLAND SETBACK		WOODLAND (MATURE) DISTURBANCE
	WOODLAND (MATURE)		

1. DEVELOPMENT NAME: SOUTHBROOK CHURCH
2. LOCATION: 11010 ST. MARTINS ROAD FRANKLIN, WISCONSIN
3. OWNER/ DEVELOPER: SOUTHBROOK CHURCH 6455 SOUTH 108TH ST FRANKLIN, WI 53132
4. ARCHITECT: GROTH DESIGN GROUP N58 W6181 COLUMBIA ROAD CEDARBURG, WI 53012
5. WETLANDS PER 2012 WETLAND DELINEATION BY R.A. SMITH NATIONAL
6. REFER TO CERTIFIED SURVEY MAP FOR PROPOSED EASEMENTS.



**PROJECT**

ADDITIONS AND ALTERATIONS TO:

SOUTHBROOK CHURCH

11010 ST. MARTINS ROAD  
FRANKLIN, WI 53132

**ISSUE**

NO.	REV. DATE	DESCRIPTION

**PROJECT INFO**

Date  
01-23-15  
Project No.  
14C6614  
Drawn By: CAP  
Author

**SHEET TITLE**

NATURAL RESOURCES PROTECTION PLAN

**NR-1**