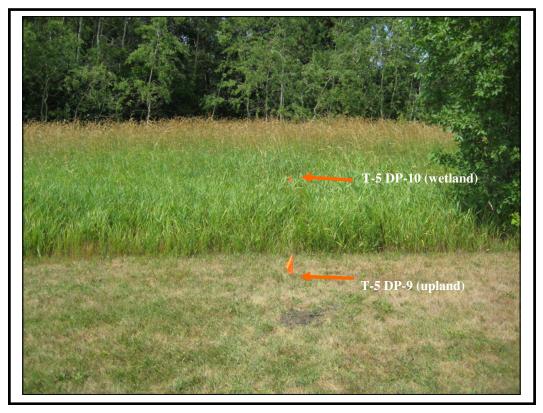


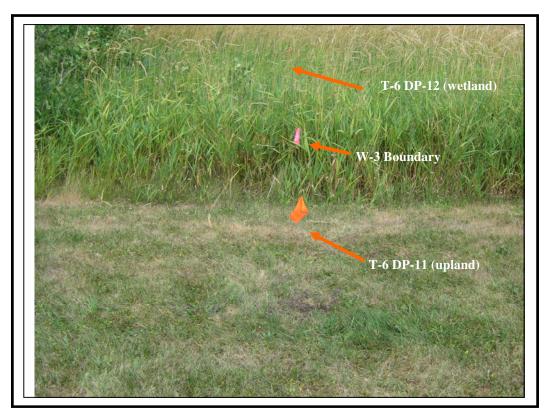
Photograph 9 (7/24/2012): East facing view of Transect 4 within W-2.



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



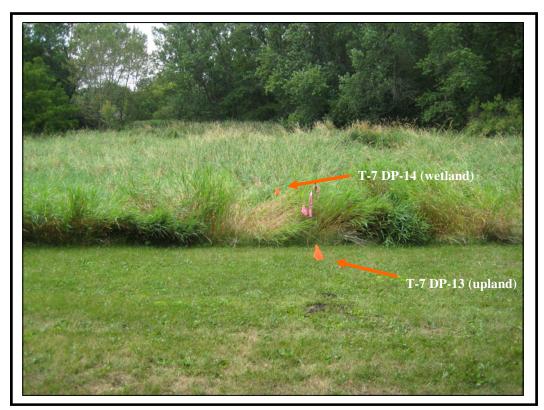
Photograph 9 (7/24/2012): North facing view of Transect 5 along W-3's boundary.



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

Project/Site: Southbrook Church		City/County: Franklin, Milwaukee Sampling Date: July 24, 2012
Applicant/Owner: Southbrook Churc	h	State: WI Sampling Point: T-1 DP-1(upl)
Investigator(s): Heather Patti & Tir		Section, Township, Range: NE 1/4 Sec 18, T5N, R21E
	slope	Local relief (concave, convex, none): convex
· · · ·	_	ong: See Figure 2 Datum: See Figure 2
Soil Map Unit Name:	Morley silt loam (MzdB2), 2-6% slopes,	
Are climatic / hydrologic conditions on the si	te typical for this time of year?	Yes No *X (if no, explain in Remarks)
	lo_or Hydrology <u>No</u> significantly disturb	
Are Vegetation No Soil N	lo or Hydrology <u>No</u> naturally problema	tic? (if needed, explain any answers in Remarks)
SUMMARY OF FINDINGS Atta	ach site map showing sampling poi	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes NoX	Is the Sampled Area
Hydric Soil Present?	Yes NoX	within a Wetland? Yes NoX
Wetland Hydrology Present?	Yes NoX	If yes, optional wetland site ID:
Remarks: Climatic conditions are ve	ery dry for this time of year -4-6 inches below	average precipitation at date of site visit.
VEGETATION - Use scientific nar	nes for plants.	Sampling Point:
	Absolute % Dominant Indicat	
Tree Stratum (Plot size: n/a)	Cover Species Status	<u>S</u>
1 2		Number of Dominant Species That Are OBL, FACW, or FAC: 1
3		Total Number of Dominant
4 5		Species Across All Strata: <u>2</u> (B)
6		Percent of Dominant Species
7	0 = Total Cover	That Are OBL, FACW, or FAC:(A/B)
		Prevalence Index Worksheet:
		Total % Cover of: Multiply by:
Copling/Chrub Stratum (Blat size)	B)	$\begin{array}{c} OBL species \\ \hline 0 \\ \hline x 1 = 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array}$
Sapling/Shrub Stratum (Plot size: <u>15</u> 1. <i>Malus pumila</i>	<u>R)</u> 30 Y UPL	FACW species 10 x 2 = 20 FAC species 85 x 3 = 255
2. Rhamnus cathartica	5 N FAC	FACU species 92 x 4 = 368
3. Cornus alba	5 N FACW	UPL species $75 \times 5 = 375$
4.		Column Totals: 262 (A) 1018 (B)
5		
6.	· · · · · · · · · · · · · · · · · · ·	Prevalence Index B/A = 3.9
7.		
	40 = Total Cover	Hydrophytic Vegetation Indicators:
		Rapid Test for Hydrophytic Vegetation
		Dominance Test is >50%
		Prevalence Index is $\leq 3.0^{1}$
Herb Stratum (Plot size: 5'R	<u>)</u>	Morphological Adaptations ¹ (Provide supporting
1. Poa pratensis	80 Y FAC	data in Remarks or on separate sheet)
2. Solidago canadensis	<u>30 N FACU</u>	Problematic Hydrophytic Vegetation ¹ (Explain)
3. <u>Melilotus officinalis</u>	<u>30 N FACU</u>	
4. Rudbeckia hirta 5. Solidago rigida	<u>30 N FACU</u> 25 N UPL	¹ Indicators of hydric soil and wetland hydrology must
6. Daucus carota	25 <u>N</u> <u>UPL</u> 20 N UPL	be present, unless disturbed or problematic.
6. Daucus carola 7. Fraxinus pennsylvanica	5 N FACW	be present, unless disturbed of problematic.
8. Taraxacum officinale	2 N FACU	
9.		—
10		—
10 11		—
12		—
13		—
14.		—
	= Total Cover	
Woody Vine Stratum (Plot size: n/a	<u>)</u>	
1		—
2		—
3.		Hydrophytic
4		Vegetation
	0 = Total Cover	Present? Yes <u>No X</u>
Demosilas (Inclusion intento in the		
Remarks: (Include photo numbers here or o The plant community is an upland n		The prevalence index is above 3.0 and area lacks hydric soil

and wetland hydroloy.

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

inches)	Color (moist)	%	Color (moist)	%	es Type ¹	Loc ²	Texture	Remarks
0-7	10YR 3/3	100	-		<u>.,po</u> _		silty clay loar	
7-12	10YR 4/2 &	50	7.5YR 4/4	10	с	м	silty clayloan	-
	10YR 3/3	40			-			
12-20	10YR 4/4	90	10YR 5/6	10	с	м	silty clay	-
							<u>only only</u>	
			<u> </u>					
ype: C=Concentra	ation, D=Depletion, RM=Redu	ced Matrix, C	S=Covered or Coat	ted Sand Grain	S.	2	² Location: PL=Pore Lining	, M=Matrix
dric Soil Indicate	ors:						Indicators for F	Problematic Hydric Soils ³ :
Histosol (A1)		5	Sandy Gleyed Matri	ix (S4)			Coast F	Prairie Redox (A16) (LRR,K,L,R)
Histic Epipedon (A2) Sandy Redox (S5)								urface (S7) (LRR,K,L)
Black Histic (A3) Stripped Matrix (S6)								ucky peat or peat (S3) (LRR,K,L)
Hydrogen Sulfic			_oamy Mucky Miner					Inganese Masses (F12) (LRR,K,L,R)
Stratified Layer 2 cm Much (A1			_oamy Gleyed Matri Depleted Matrix (F3				nallow Dark Surface (TF12) Explain in Remarks)	
-	v Dark Surface (A11)		Redox Dark Surface	,				
Thick Dark Sur	. ,		Depleted Dark Surfa					
Sandy Mucky N	. ,		Redox Depressions	. ,				
estrictive Layer (i	f observed):							
estrictive Layer (i Type: <u>non</u> e								
	9					I	Hydric Soil Present?	Yes No_X
Type: <u>none</u> Depth (inches):	e		to point			I	Hydric Soil Present?	Yes No_X
Type: <u>none</u> Depth (inches):	9	net at this da	ıta point.			I	Hydric Soil Present?	Yes No_X
Type: <u>none</u> Depth (inches):	e	net at this da	ita point.			1	Hydric Soil Present?	Yes No_X
Type: <u>none</u> Depth (inches):	e	net at this da	ita point.			I	Hydric Soil Present?	Yes No_X
Type: <u>none</u> Depth (inches):	e	net at this da	ita point.				Hydric Soil Present?	Yes No_X
Type: <u>none</u> Depth (inches): emarks: The	e	net at this da	ita point.				Hydric Soil Present?	Yes No_X
Depth (inches):	e	net at this da	ita point.			1	Hydric Soil Present?	Yes No_X
Type: none Depth (inches): emarks: The	e <u>n/a</u> hydric soil criterion is not n	net at this da	ita point.			1	- 	
Type: none Depth (inches): emarks: The YDROLOGY /etland Hydrology	hydric soil criterion is not n					1	- 	ary Indicators (minimum of two required)
Type: none Depth (inches): emarks: The HYDROLOGY fetland Hydrology rimary Indicators (r	hydric soil criterion is not n	heck all that a	apply)	ves (B9)			- 	ary Indicators (minimum of two required) _Surface Soil Cracks (B6)
Type: none Depth (inches): emarks: The YDROLOGY retland Hydrology rimary Indicators (r Surface Water	hydric soil criterion is not n hydric soil criterion is not n ninimum of one is required; c (A1)	heck all that a	apply) Water-Stained Leav				- 	ary Indicators (minimum of two required) _Surface Soil Cracks (B6) _Drainage Patterns (B10)
Type: none Depth (inches): emarks: The YDROLOGY fetland Hydrology rimary Indicators (r Surface Water High Water Tat	hydric soil criterion is not n hydric soil criterion is not n r Indicators: minimum of one is required; c (A1) ole (A2)	heck all that a	apply) Nater-Stained Leav Aquatic Fauna (B13	5)			- 	ary Indicators (minimum of two required) _Surface Soil Cracks (B6) _Drainage Patterns (B10) _Dry-Season Water Table (C2)
Type: none Depth (inches): emarks: The NYDROLOGY fetland Hydrology rimary Indicators (r Surface Water	hydric soil criterion is not n hydric soil criterion is not n ninimum of one is required; c (A1) ble (A2)	heck all that a	apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants) (B14)			- 	ary Indicators (minimum of two required) _Surface Soil Cracks (B6) _Drainage Patterns (B10)
Type: none Depth (inches): emarks: The YDROLOGY etland Hydrology imary Indicators (r Surface Water High Water Tat Saturation (A3)	hydric soil criterion is not n hydric soil criterion is not n ninimum of one is required; c (A1) ble (A2) 31)	heck all that a	apply) Nater-Stained Leav Aquatic Fauna (B13) (B14) dor (C1)	loots (C3)		- 	ary Indicators (minimum of two required) _Surface Soil Cracks (B6) _Drainage Patterns (B10) _Dry-Season Water Table (C2) _Crayfish Burrows (C8)
Type: none Depth (inches): emarks: The IYDROLOGY /etland Hydrology rimary Indicators (r Surface Water High Water Tat Saturation (A3) Water Marks (E	hydric soil criterion is not n hydric soil criterion is not n ninimum of one is required; c (A1) ole (A2) B1) sits (B2)	heck all that a	apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide Od) (B14) dor (C1) eres on Living F	loots (C3)		- 	ary 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)
Type: none Depth (inches): emarks: The IYDROLOGY /etland Hydrology /rimary Indicators (r 	hydric soil criterion is not n hydric soil criterion is not n ninimum of one is required; c (A1) ole (A2) B31) sits (B2) B3)	heck all that a	apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide Or Oxidized Rhizosphe) (B14) dor (C1) eres on Living F ed Iron (C4)			- 	ary 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)
Type: none Depth (inches): emarks: The IYDROLOGY /etland Hydrology /rimary Indicators (r Surface Water High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (hydric soil criterion is not n hydric soil criterion is not n ninimum of one is required; c (A1) ole (A2) 31) sits (B2) B3) ust (B4)	heck all that a	Apply) Water-Stained Leav Aquatic Fauna (B13) True Aquatic Plants Hydrogen Sulfide Or Dxidized Rhizosphe Presence of Reducc Recent Iron Reducti Thin Muck Surface ((B14) (B14) dor (C1) eres on Living F ed Iron (C4) ion in Tilled Soi (C7)			- 	ary 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)
Type: none Depth (inches): emarks: The IYDROLOGY /etland Hydrology rimary Indicators (r Surface Water High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Inundation Visit	n/a hydric soil criterion is not n ninimum of one is required; c (A1) ole (A2) (A1) sits (B2) B3) ust (B4) 35) ole on Aerial Imagery (B7)	heck all that a	apply) Water-Stained Leav Aquatic Fauna (B13) True Aquatic Plants Hydrogen Sulfide Or Dxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (Gauge or Well Data	(B14) (B14) dor (C1) eres on Living F ed Iron (C4) ion in Tilled Soi (C7) (C9)			- 	ary 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)
Type: none Depth (inches): emarks: The YDROLOGY fetland Hydrology fimary Indicators (r Surface Water High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Inundation Visit	n/a hydric soil criterion is not n ninimum of one is required; c (A1) ole (A2) 31) sists (B2) B3) ust (B4) 35)	heck all that a	Apply) Water-Stained Leav Aquatic Fauna (B13) True Aquatic Plants Hydrogen Sulfide Or Dxidized Rhizosphe Presence of Reducc Recent Iron Reducti Thin Muck Surface ((B14) (B14) dor (C1) eres on Living F ed Iron (C4) ion in Tilled Soi (C7) (C9)			- 	ary 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)
Type: none Depth (inches): emarks: The YDROLOGY fetland Hydrology fimary Indicators (r Surface Water High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Inundation Visit	n/a hydric soil criterion is not n ninimum of one is required; c (A1) ole (A2) (A1) sits (B2) B3) ust (B4) 35) ole on Aerial Imagery (B7)	heck all that a	apply) Water-Stained Leav Aquatic Fauna (B13) True Aquatic Plants Hydrogen Sulfide Or Dxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (Gauge or Well Data	(B14) (B14) dor (C1) eres on Living F ed Iron (C4) ion in Tilled Soi (C7) (C9)		-	- 	ary 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)
Type: none Depth (inches): emarks: The YDROLOGY fetland Hydrology rimary Indicators (r Surface Water High Water Tat Saturation (A3) Water Marks (G Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Algal Mat or Cr Iron Deposits (Sparsely Veget	n/a hydric soil criterion is not n hydric soil criterion is not n y Indicators: minimum of one is required; c (A1) ple (A2) B3) ust (B4) 35) ple on Aerial Imagery (B7) ated Concave Surface (B8)		Apply) Water-Stained Leav Aquatic Fauna (B13 True Aquatic Plants Hydrogen Sulfide Or Dxidized Rhizosphe Presence of Reducci Recent Iron Reducti Thin Muck Surface (Gauge or Well Data Dther (Explain in Re	(B14) (B14) dor (C1) eres on Living F ed Iron (C4) ion in Tilled Soi (C7) (C9)		-	- 	ary 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)
Type: none Depth (inches): emarks: The IYDROLOGY /etland Hydrology rimary Indicators (r Surface Water High Water Tat Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Inundation Visit	n/a hydric soil criterion is not n hydric soil criterion is not n ninimum of one is required; c (A1) (A1) ble (A2) (A1) sits (B2) B3) ust (B4) 35) ble on Aerial Imagery (B7) ated Concave Surface (B8) : ent? Yes	heck all that a	apply) Water-Stained Leav Aquatic Fauna (B13) True Aquatic Plants Hydrogen Sulfide Or Dxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (Gauge or Well Data	(B14) (B14) dor (C1) eres on Living F ed Iron (C4) ion in Tilled Soi (C7) (C9)			- 	ary 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)

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

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

Remarks: No wetland hydrology indicators present at this data point.

Project/Site: Southbrook Church		City/County: Franklin, Milwaukee Sampling Date: July 24, 2012							
Applicant/Owner: Southbrook C	hurch	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	ong: See Figure 2 Datum: See Figure 2							
Soil Map Unit Name:	Ashkum silty clay loam (AsA), 0-3% s	slopes WWI Classification: E2K							
Are climatic / hydrologic conditions on t	he site typical for this time of year?	Yes No *X (if no, explain in Remarks)							
Are Vegetation No Soil	No or Hydrology No significantly distur	bed? Are "Normal Circumstances" present? Yes X No							
Are Vegetation No Soil	**Yes or Hydrology **Yes naturally problema	tic? (if needed, explain any answers in Remarks)							
	Attack site way abouting compliant act	at leasting a way and in a start facture at							
SUMMARY OF FINDINGS	Attach site map showing sampling poir	nt locations, transects, important features, etc.							
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled Area							
Hydric Soil Present?	Yes X No	within a Wetland? Yes X No							
Wetland Hydrology Present?	Yes X No	If yes, optional wetland site ID: W-1							
Remarks: *4-6 inches below average precipitation - drought conditions									
**Problem soil - Mollisol ** This is a depressional wetland with seasonal hydrology									
VEGETATION - Use scientific names for plants. Sampling Point: T-1 DP-2 (wtd)									
VEGETATION - Use scientific	•	Sampling Point: T-1 DP-2 (wtd)							
Tree Stratum (Plot size: 30'R	Absolute % Dominant Indicat) Cover Species Statu	Dominance lest worksheet:							
· · · · · ·		Number of Dominant Species							
1. Salix nigra	<u>20 Y OBL</u>	That Are OBL, FACW, or FAC: (A)							
2. <u>Populus tremuloides</u> 3.	<u>2 N FAC</u>	Total Number of Dominant							
3 4		Species Across All Strata: 4 (B)							
5.									
6		Percent of Dominant Species							
7	22 = Total Cover	That Are OBL, FACW, or FAC:(A/B)							
	22 = Total Cover	Prevalence Index Worksheet:							
		Total % Cover of: Multiply by:							
		OBL species x 1 =							
Sapling/Shrub Stratum (Plot size:	<u>15'R)</u>	FACW species x 2 =							
1. <u>Salix discolor</u> 2. Cornus alba	<u>80YFACW</u> 20 N FACW	FAC species x 3 =							
3. Cornus racemosa	<u></u>	FACU species x 4 = UPL species x 5 =							
4. Populus tremuloides	10 N FAC	Column Totals: (A) (B)							
5									
6		Prevalence Index B/A =							
7	120 = Total Cover	Hydrophytic Vegetation Indicators:							
		Rapid Test for Hydrophytic Vegetation							
		X Dominance Test is >50%							
	, ,	Prevalence Index is $\leq 3.0^{1}$							
Herb Stratum (Plot size: 5'R 1. Poa pratensis)	Morphological Adaptations ¹ (Provide supporting data in Remarks or on separate sheet)							
2. Solidago canadensis	20 Y FACU	Problematic Hydrophytic Vegetation ¹ (Explain)							
3. Geum canadense	15 N FAC								
4. Fragaria virginiana	<u>10 N FACU</u>	¹ Indicators of hydric soil and wetland hydrology must							
5. Euthamia graminifolia 6. Solidago gigantea	<u>5 N FACW</u> 5 N FACW	be present, unless disturbed or problematic.							
7. Oenthera biennis	<u>5 N FACU</u>								
8.									
9									
10									
11 12.		<u> </u>							
12 13.		—							
14									
	80 = Total Cover								
Woody Vine Stratum (Plot size: n/a)								
1		—							
2.		—							
3.		Hydrophytic							
4		Vegetation							
	0 = Total Cover	Present? Yes X No							
Remarks: (Include photo numbers here	or on a separate sheet.)								

The hydrophytic vegetation criterion is met. The plant community is shrub-carr.

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

Profile Description:	(Describe to the depth need	ded to docu	ment the indicator	r or confirm t	he absence o	f indicato	ors.)		
Depth	Matrix			Redox Featu	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		Texture	Remarks
0-4	10YR 3/1	100	-					silty clay loar	
4-14	10YR 3/1	95	10YR 5/8	5	С	М	-	silty clay loar	
14-20	10YR 5/2	90	10YR 5/8	10	c	M		silty clay	
14-20	10111 3/2	30	10111 3/0	10			-	Sitty Cidy	
							-		
				-			-		
							-		
							-		
							-		
							-		
							-		
¹ Type: C=Concentration	tion, D=Depletion, RM=Reduce	ed Matrix, CS	S=Covered or Coate	ed Sand Grain	s.	2	² Locatio	n: PL=Pore Lining	, M=Matrix
Hydric Soil Indicato		,							Problematic Hydric Soils ³ :
-			Candy Clayed Mate	iv (C4)					•
Histosol (A1)	(40)		Sandy Gleyed Matr	IX (54)					Prairie Redox (A16) (LRR,K,L,R)
Histic Epipedon	()		Sandy Redox (S5)						urface (S7) (LRR,K,L)
Black Histic (A3			Stripped Matrix (S6						nucky peat or peat (S3) (LRR,K,L)
Hydrogen Sulfid			Loamy Mucky Mine						anganese Masses (F12) (LRR,K,L,R)
Stratified Layers			Loamy Gleyed Mat						hallow Dark Surface (TF12)
2 cm Much (A10			Depleted Matrix (F3					Other (Explain in Remarks)
	Dark Surface (A11)		Redox Dark Surfac	. ,					
Thick Dark Surf	()		Depleted Dark Surf	. ,					
Sandy Mucky M	lineral (S1)		Redox Depressions	s (F8)					
								³ Indicators of hy	/drophytic vegetation and wetland
								hydrology must	be present, unless disturbed or
								problematic.	
Restrictive Layer (if	observed):								
Type: none	•								
Depth (inches):	n/a					ŀ	Hydric S	Soil Present?	Yes X No
,							-		
Remarks: The h	hydric soil criterion is met.								
	-								
HYDROLOGY									
Wetland Hydrology								Second	lary Indicators (minimum of two required)
Primary Indicators (m	ninimum of one is required; che	eck all that a	oply)						Surface Soil Cracks (B6)
Surface Water (A1)		Water-Stained Leav	ves (B9)					Drainage Patterns (B10)
High Water Tab			Aquatic Fauna (B13						Dry-Season Water Table (C2)
Saturation (A3)			True Aquatic Plants						Crayfish Burrows (C8)
Water Marks (B	1)		Hydrogen Sulfide O						Saturation Visible on Aerial Imagery (C9)
Sediment Depos			Oxidized Rhizosphe	. ,	Roote (C3)				Stunted or Stressed Plants (D1)
				-	10013 (03)			x	
Drift Deposits (E			Presence of Reduct						Geomorphic Position (D2)
Algal Mat or Cru			Recent Iron Reduct		0115 (06)				_FAC-Neutral Test (D5)
Iron Deposits (B			Thin Muck Surface	. ,					
	le on Aerial Imagery (B7)		Gauge or Well Data						
Sparsely Vegeta	ated Concave Surface (B8)		Other (Explain in Re	emarks)					
E						T			
Field Observations:									
Surface Water Prese		No <u>X</u>	Depth (inches):		_				
Water Table Present		No <u>X</u>	Depth (inches):		-				
Saturation Present?	Yes	No <u>X</u>	Depth (inches):		-			Wetlan	nd Hydrology Present? Yes X No
(includes capillary fri	nge)					1			
Describe Recorded	Data (stream gauge, monitoring	well, aerial	photos, previous ins	spections), if a	vailable:				
	oils Map, aerials, AHPS Preci								
.,	., ., .								
Remarks: Seas	onal wetland hydrology is pr	esent, but s	econdary indicato	ors were obse	erved.	-			
			-						

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 Soi	; ;; ;	•	Are "Normal Circumstances" present? Yes X No
Are Vegetation No Soi	**Yes or Hydrology No naturally p	problematic?	(if needed, explain any answers in Remarks)
SUMMARY OF FINDINGS	Attach site map showing sampling	g point loc	ations, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes No	х	Is the Sampled Area
Hydric Soil Present?	Yes X No		within a Wetland? Yes No X
Wetland Hydrology Present?	Yes No	х	If yes, optional wetland site ID:
Bemarks: *4-6 inches below av	rerage precipitation - drought conditions		
	ol containing a dark surface horizon, but veg	etation and la	andscape position are indicative of uplands.
VEGETATION - Use scientifie	names for plants	-	Sampling Point: T-2 DP-3(upl)
	Absolute % Dominant	Indicator	
Tree Stratum (Plot size: n/a) Cover Species	Status	Dominance Test Worksheet:
			Number of Dominant Species
1 2.			That Are OBL, FACW, or FAC:(A)
3.			Total Number of Dominant
4.			Species Across All Strata: 2 (B)
5			Dercent of Deminent Creation
6 7			Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)
	0 = Total Cover		
			Prevalence Index Worksheet:
			Total % Cover of:Multiply by: OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size:	<u>15'R)</u>		OBL species 0 x 1 = 0 FACW species 20 x 2 = 40
1. Malus pumila		UPL	FAC species 95 x 3 = 285
2			FACU species 20 x 4 = 80
3			UPL species $35 \times 5 = 175$
4			Column Totals: <u>170</u> (A) <u>580</u> (B)
6.			Prevalence Index B/A = 3.4
7			
	5 = Total Cover		Hydrophytic Vegetation Indicators:
			Rapid Test for Hydrophytic Vegetation Dominance Test is >50%
			$\frac{1}{2}$ Prevalence Index is $\leq 3.0^{1}$
Herb Stratum (Plot size: 5'R)		Morphological Adaptations ¹ (Provide supporting
1. Poa pratensis		FAC	data in Remarks or on separate sheet)
2. Daucus carota 3. Solidago canadensis		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
4. Phalaris arundinacea		FACW	
5. Euthamia graminifolia		FACW	¹ Indicators of hydric soil and wetland hydrology must
6. Ambrosia artemisiifolia		FACU	be present, unless disturbed or problematic.
7. <i>Vitis riparia</i> 8.	2 <u>N</u> F	FACW	
9.			
10.			
11			
12 13.			
14			
	165 = Total Cover		
Woody Vine Stratum (Plot size: n/a)		
1.			
1 2.			
3.			Hydrophytic
4			Vegetation
	0 = Total Cover		Present? Yes <u>No X</u>
Remarks: (Include photo numbers her			
The hydrophytic vegetation criterio	n is not met. The prevalence index is above	3.0. Hydric s	oil present but not wetland hydrology.

Sampling Point: T-2

T-2 DP-3(upl)

Profile Description:	: (Describe to the depth need	ed to docum	nent the indicator	or confirm the	absence of	indicate	ors.)				
Depth	Matrix			Redox Feature	es						
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	-	Texture	Rema	arks	
0-6 6-17	10YR 2/1 10YR 2/1	<u>100</u> 90	- 10YR 5/8	5	с	м	-	silty clay loar silty clay			
<u> </u>			10YR 3/4	5	c	 M	-	Sitty oldy			
17-21	10YR 5/2	95	10YR 5/8	5	c	 M	-	silty clay			
							-				
				· ·			-				
				·			-				
				<u> </u>			-				
							-				
							-				
¹ Type: C=Concentra	tion, D=Depletion, RM=Reduce	d Matrix, CS	=Covered or Coate	d Sand Grains.			² Loca	tion: PL=Pore Lining,	M=Matrix		
Hydric Soil Indicate	ors:							Indicators for P	roblematic Hydric Soils	s ³ :	
Histosol (A1)			Sandy Gleyed Matr	rix (S4)				Coast P	rairie Redox (A16) (LRR	,K,L,R)	
Histic Epipedon			Sandy Redox (S5)						rface (S7) (LRR,K,L)		
Black Histic (A3	,		Stripped Matrix (S6	,					ucky peat or peat (S3) (L		
Hydrogen Sulfic	()		Loamy Mucky Mine						nganese Masses (F12) (
Stratified Layers			Loamy Gleyed Mat Depleted Matrix (F3						allow Dark Surface (TF1 Explain in Remarks)	2)	
· · ·	v Dark Surface (A11)		Redox Dark Surface								
Thick Dark Surf			Depleted Dark Surface								
Sandy Mucky M	()		Redox Depressions	. ,							
								3			
									drophytic vegetation and be present, unless disturb		
								problematic.			
Restrictive Layer (if	f observed):										
Type: none											
Depth (inches):	n/a						Hydri	c Soil Present?	Yes X	No	
Remarks: The I	hydric soil criteria is met, alth	ough vegeta	ation and hydrolog	gy indicative of	uplands.						
	-				-						
HYDROLOGY											
Wetland Hydrology		al all that any						Seconda	ary Indicators (minimum	·	
	ninimum of one is required; che			(50)					Surface Soil Cracks (B	,	
Surface Water (Water-Stained Leav	. ,					Drainage Patterns (B10	,	
High Water Tab	()		Aquatic Fauna (B13						Dry-Season Water Tab	le (G2)	
Saturation (A3) Water Marks (B			True Aquatic Plants Hydrogen Sulfide C	· · ·					Crayfish Burrows (C8)	orial Imagony (CC	2)
Sediment Depos	,		Oxidized Rhizosph	. ,	loote (C3)				Saturation Visible on A Stunted or Stressed Pla		<i>)</i>)
Drift Deposits (E			Presence of Reduc	-	10015 (03)				Geomorphic Position (I		
Algal Mat or Cru			Recent Iron Reduct	()	ls (C6)				FAC-Neutral Test (D5)	52)	
Iron Deposits (E	. ,		Thin Muck Surface		0 (00)						
	ble on Aerial Imagery (B7)		Gauge or Well Data								
	ated Concave Surface (B8)		Other (Explain in R								
Field Observations	:										
Surface Water Prese		No X	Depth (inches):								
Water Table Present		No X	Depth (inches):								
Saturation Present? (includes capillary fri	Yes	No X	Depth (inches):					Wetland	d Hydrology Present?	Yes	No <u>X</u>
	Data (stream gauge, monitoring	well, aerial p	hotos, previous ins	pections), if avai	ilable:						
WWI Map, NRCS So	oils Map, aerials, AHPS Precip	itation data,	, Milwaukee Coun	ty WETS table							
Remarks: No w	vetland hydrology indicators	present The	are is a subtle top	o break betwee	n the unlan	d and w	etland	boundary			
	indicators indicators i			- SIGAN BELWEE		a and W	Junio				

Project/Site: Southbroo	k Church				City/County: Franklin, Milwaukee Sampling Date: July 24, 2012				
Applicant/Owner: Sou	uthbrook Church				State: WI Sampling Point: T-2 DP-4 (wtd)				
Investigator(s): Hea	ather Patti & Tina M	yers			Section, Township, Range: NE 1/4 Sec 18, T5N, R21E				
Landform (hillslope, terrace	, etc.): depres	sion			Local relief (concave, convex, none): concave				
Slope (%): 0%	Lat:	See Figure 2		Long: S	bee Figure 2 Datum: See Figure 2				
Soil Map Unit Name:		Ashkum sil	Ity clay loam (As	A), 0-3% slopes	WWI Classification: E2K				
Are climatic / hydrologic cor	nditions on the site ty	pical for this time	of year?		Yes No X (if no, explain in Remarks)				
Are Vegetation	lo Soil <u>No</u>	or Hydrology	<u>No</u> significa	ntly disturbed?	Are "Normal Circumstances" present? Yes X No				
Are Vegetation	lo Soil <u>**Yes</u>	or Hydrology	**Yes naturally	problematic?	(if needed, explain any answers in Remarks)				
		-		ing point loca	ations, transects, important features, etc.				
Hydrophytic Vegetation Pre	sent?	Yes X	-		Is the Sampled Area				
Hydric Soil Present?		Yes X	No		within a Wetland? Yes X No				
Wetland Hydrology Present	?	Yes X	No		If yes, optional wetland site ID: W-1				
Remarks: *4-6 inches below average precipitation - drought conditions **Problem soil - Mollisol ** This is a depressional wetland with seasonal hydrology									
VEGETATION - Use	scientific names	Absolute %	Dominant	Indicator	Sampling Point: T-2 DP-4 (wtd)				
Tree Stratum (Plot size: n/	/a)	Cover	Species	Status	Dominance Test Worksheet:				
1.	_				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)				
2.									
3 4					Total Number of Dominant Species Across All Strata: <u>1</u> (B)				
5					Devent of Developed Consistent				
6 7					Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)				
		0 =	Total Cover		· · · · · · · · · · · · · · · · · · ·				
					Prevalence Index Worksheet:				
					Total % Cover of: Multiply by: OBL species 10 x 1 = 10				
Sapling/Shrub Stratum (Plo	t size: <u>n/a</u>)			FACW species $59 \times 2 = 118$				
1.		<u></u>			FAC species 95 x 3 = 285				
2.					FACU species 0 x 4 = 0				
3					UPL species 0 x 5 = 0				
4					Column Totals: (A) (B)				
5 6.					Prevalence Index B/A = 2.5				
6 7									
		0 =	Total Cover		Hydrophytic Vegetation Indicators:				
					Rapid Test for Hydrophytic Vegetation				
					$\frac{X}{X}$ Dominance Test is >50% Prevalence Index is $\leq 3.0^1$				
Herb Stratum (Plot size:	5'R)			Morphological Adaptations ¹ (Provide supporting				
1. Poa pratensis		95	Y	FAC	data in Remarks or on separate sheet)				
2. Phalaris arundinacea	1	25	N	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)				
3. Solidago gigantea		20	Ν	FACW					
4. Euthamia graminifoli	ia	10	<u>N</u>	FACW					
5. <i>Persicaria amphibia</i> 6. <i>Juncus dudleyi</i>		<u>10</u> 2	<u> </u>	OBL FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
7. Agrostis gigantea		2	<u> </u>	FACW	be present, unless disturbed of problematic.				
8.				14011					
9.									
10.									
11									
12									
13 14									
		164 =	Total Cover						
Woody Vine Stratum (Plot s	size: n/a)							
		<u> </u>							
1 2.									
2 3					Hydrophytic				
4.					Vegetation				
		0	= Total Cover		Present? Yes X No				
Remarks: (Include photo nu	Imbers here or on a	separate sheet \			I				

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.

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

Profile Description	1: (Describe to the depth nee	ded to docu	ment the indicator	or confirm t	he absence o	f indicator	rs.)	
Depth	Matrix			Redox Featu	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 3/1	90	10YR 5/6	10	С	М	silty clay loar	
4-12	10YR 2/1	100					silty clay loar	
12-20	10YR 5/1	80	10YR 5/8	20	с	м	silty clay	
12-20	1018 5/1	00	1011 5/0	20	C		Sitty Clay	
							·	
· · · · · ·				-				
¹ Type: C=Concentra	ation, D=Depletion, RM=Reduc	ed Matrix, CS	S=Covered or Coate	ed Sand Grain	s.	2	Location: PL=Pore Lining	, M=Matrix
Hydric Soil Indicat	ors:						Indicators for P	roblematic Hydric Soils ³ :
Histosol (A1)			Sandy Gleyed Matr	ix (S4)			Coast F	rairie Redox (A16) (LRR,K,L,R)
Histic Epipedo	n (A2)		Sandy Redox (S5)	(-)				Inface (S7) (LRR,K,L)
Black Histic (A	()		Stripped Matrix (S6)				ucky peat or peat (S3) (LRR,K,L)
Hydrogen Sulfi			Loamy Mucky Mine					nganese Masses (F12) (LRR,K,L,R)
Stratified Layer			Loamy Gleyed Mati					allow Dark Surface (TF12)
2 cm Much (A1			Depleted Matrix (F3	. ,				Explain in Remarks)
Depleted Below	w Dark Surface (A11)	x	Redox Dark Surfac	e (F6)				. ,
Thick Dark Sur	rface (A12)		Depleted Dark Surf	ace (F7)				
Sandy Mucky	Mineral (S1)		Redox Depressions	s (F8)				
							³ Indicators of hy	drophytic vegetation and wetland
								be present, unless disturbed or
							problematic.	
Restrictive Layer (if observed):							
Type: non								
Depth (inches)	: n/a					н	ydric Soil Present?	Yes X No
,							,	
Remarks: The	hydric soil criterion is met.							
HYDROLOGY								
Watland Hydrolog	v Indiantara						Casand	and Indiantara (minimum of two required)
Wetland Hydrology Primary Indicators (minimum of one is required; ch	eck all that an	(vlac				Second	ary Indicators (minimum of two required) Surface Soil Cracks (B6)
				(DO)		_		Drainage Patterns (B10)
Surface Water			Water-Stained Leav					
High Water Ta			Aquatic Fauna (B13					Dry-Season Water Table (C2)
Saturation (A3)	,		True Aquatic Plants					Crayfish Burrows (C8)
Water Marks (I			Hydrogen Sulfide C					Saturation Visible on Aerial Imagery (C9)
Sediment Depo			Oxidized Rhizosphe	-	Roots (C3)			Stunted or Stressed Plants (D1)
Drift Deposits (Presence of Reduc	. ,			<u> </u>	_ Geomorphic Position (D2)
Algal Mat or Cr			Recent Iron Reduct		olis (C6)		<u> </u>	FAC-Neutral Test (D5)
Iron Deposits (Thin Muck Surface					
	ible on Aerial Imagery (B7)		Gauge or Well Data					
Sparsely Vege	tated Concave Surface (B8)		Other (Explain in Re	emarks)				
Field Observations			Death (in the i			1		
Surface Water Pres		No <u>X</u>	Depth (inches):		-			
Water Table Presen	· · · · · · · · · · · · · · · · · · ·	No <u>X</u>	Depth (inches):		-			
Saturation Present? (includes capillary fr		No <u>X</u>	Depth (inches):		-		wetian	d Hydrology Present? Yes X No
	Data (stream gauge, monitoring							
WWI Map, NRCS S	Soils Map, aerials, AHPS Prec	ipitation data	a, Milwaukee Cour	ity WETS tab	le			
Remarks: Sea	sonal wetland hydrology is p	resent, but s	econdary indicato	rs were obse	erved.			

Project/Site: South	brook Church				City/County: Franklin, Milwaukee Sampling Date: July 24, 2012				
Applicant/Owner:	Southbrook Cl	hurch			State: WI Sampling Point: T-3 DP-5 (upl)				
Investigator(s):	Heather Patti &	k Tina Myers			Section, Township, Range: NE 1/4 Sec 18, T5N, R21E				
Landform (hillslope, te	errace, etc.):	hillslope			Local relief (concave, convex, none): convex				
Slope (%): 3-5%		Lat: See Figu			ee Figure 2 Datum: See Figure 2				
Soil Map Unit Name:	ia conditiona on t		tum silty clay loam (As	SA), 0-3% Slopes	WWI Classification: none mapped Yes No *X (if no, explain in Remarks)				
Are climatic / hydrolog Are Vegetation	**Yes Soil	**Yes or Hydro	•	antly disturbed?	Yes No X (if no, explain in Remarks) Are "Normal Circumstances" present? Yes X No				
Are Vegetation	No Soil	**Yes or Hydro		ly problematic?	(if needed, explain any answers in Remarks)				
SUMMARY OF F	INDINGS	Attach site ma	p showing samp	ling point loca	ations, transects, important features, etc.				
Hydrophytic Vegetatio	n Present?	Yes	No	<u> </u>	Is the Sampled Area				
Hydric Soil Present?		Yes_	No	X	within a Wetland? Yes No X				
Wetland Hydrology Pr	esent?	Yes	No	X	If yes, optional wetland site ID:				
Remarks: *4-6 inches below average precipitation - drought conditions **The soil is a mollisol containing a dark surface horizon **mowed grass lawn and mixed matrix in soils profile indicating past disturbance									
VEGETATION -	Use scientific	names for plan	ts.		Sampling Point:				
-		Absolut		Indicator	Dominance Test Worksheet:				
Tree Stratum (Plot siz	e: n/a) Cove	r Species	Status	Number of Dominant Species				
1 2.					That Are OBL, FACW, or FAC:(A)				
0					Total Number of Dominant				
-				<u> </u>	Species Across All Strata: <u>2</u> (B)				
				· <u> </u>	Percent of Dominant Species				
7.					That Are OBL, FACW, or FAC:(A/B)				
		0	= Total Cover		Prevalence Index Worksheet:				
5	.e: 5'R			FAC FACU FACU	Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 0 x 2 = 0 FAC species 80 x 3 = 240 FAC species 65 x 4 = 260 UPL species 3 x 5 = 15 Column Totals: 148 (A) 515 (B) Prevalence Index B/A = 3.5 Hydrophytic Vegetation Indicators:				
8 9 10 11 12 13			N		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Woody Vine Stratum (Plot size: n/a)							
1.				. <u></u>					
3					Hydrophytic				
4		0	= Total Cover		Vegetation Present? Yes <u>No X</u>				
		erion is not met si	,	he PI and lacks hy	ydric soil/wetland hydrology.				

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

	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Rema	rks
0-2	10YR 3/1 &	50	-				silty clay loar		
	10YR 4/3	50	. <u></u> .						
2-14	10YR 3/1 &	40	10YR 5/6	10	С	M	silty clay loar		
	10YR 4/3	50	. <u></u> .						
14-20	10YR 4/3	100	<u> </u>				silty clay		
Type: C=Concent	ration, D=Depletion, RM=Redu	ced Matrix, CS	=Covered or Coated	Sand Grains		² Lo	cation: PL=Pore Lining		
lydric Soil Indica	tors:							Problematic Hydric Soils	
Histosol (A1) Sandy Gleyed Matrix (S4)								Prairie Redox (A16) (LRR,	K,L,R)
Histic Epipedon (A2) Black Histic (A3) Stripped Matrix (S6)								urface (S7) (LRR,K,L) nucky peat or peat (S3) (LF	RKI)
Hydrogen Sul	,		Loamy Mucky Miner					anganese Masses (F12) (L	
Stratified Laye			Loamy Gleyed Matri	. ,				hallow Dark Surface (TF12	,
2 cm Much (A			Depleted Matrix (F3)					Explain in Remarks)	-)
	w Dark Surface (A11)		Redox Dark Surface	, e (F6)				,	
Thick Dark Su			Depleted Dark Surfa						
Sandy Mucky	Mineral (S1)		Redox Depressions	(F8)					
								vdrophytic vegetation and v	
								be present, unless disturbe	ed or
							problematic.		
•	· ·						problematic.		
Type: noi	ne						·	Ver	
Type: <u>noi</u> Depth (inches	ne): <u>n/a</u>					Нус	problematic.	Yes	No <u>X</u>
Type: <u>noi</u> Depth (inches	ne	net.				Нус	·	Yes	No <u>X</u>
Type: <u>noi</u> Depth (inches	ne): <u>n/a</u>	net.				Нус	·	Yes	No <u>X</u>
Type: <u>no</u> Depth (inches Remarks: The): <u>n/a</u>	net.				Нус	·	Yes	No <u>X</u>
Type: noi Depth (inches Remarks: The HYDROLOGY Vetland Hydrolog	e <u>n/a</u> hydric soil criterion is not n y Indicators:		p(v)			Нус	tric Soil Present?	dary Indicators (minimum c	of two required)
Type: non Depth (inches Remarks: The HYDROLOGY Wetland Hydrolog Primary Indicators	e): n/a • hydric soil criterion is not n • hydric soil criterion is not n • hydric soil criterion is not n • hydric soil criterion is not n	heck all that ap		es (B9)		Нус	tric Soil Present?	dary Indicators (minimum c Surface Soil Cracks (B6	<u>of two require</u> d)
Type: non Depth (inches Remarks: The HYDROLOGY Wetland Hydrolog Primary Indicators Surface Wate	e hydric soil criterion is not n hydric soil criterion is not n y Indicators: (minimum of one is required; cl	heck all that ap	Water-Stained Leave			Нус	tric Soil Present?	dary Indicators (minimum c _ Surface Soil Cracks (B6 _ Drainage Patterns (B10)	of two required)
Type: noi Depth (inches Remarks: The HYDROLOGY Wetland Hydrolog Primary Indicators Surface Wate High Water Ta	e hydric soil criterion is not n hydric soil criterion is not n hydricators: (minimum of one is required; cl (A1) hble (A2)	heck all that ap	Water-Stained Leave Aquatic Fauna (B13))		Hyc	tric Soil Present?	dary Indicators (minimum c _ Surface Soil Cracks (B6 _ Drainage Patterns (B10) _ Dry-Season Water Table	of two required)
Type: non Depth (inches Remarks: The HYDROLOGY Vetland Hydrolog Primary Indicators Surface Wate	e i: n/a hydric soil criterion is not n hy Indicators: (minimum of one is required; cl (A1) bble (A2) i)	heck all that ap	Water-Stained Leave) (B14)		Hyc	tric Soil Present?	dary Indicators (minimum c _ Surface Soil Cracks (B6 _ Drainage Patterns (B10)	of two required)) e (C2)
Type: not Depth (inches Remarks: The HYDROLOGY Wetland Hydrolog Primary Indicators Surface Wate High Water Ta Saturation (A3	e i: n/a hydric soil criterion is not n y Indicators: (minimum of one is required; cl (A1) ble (A2)) B1)	heck all that ap	Water-Stained Leave Aquatic Fauna (B13) True Aquatic Plants) (B14) dor (C1)	Roots (C3)	Нус	tric Soil Present?	dary Indicators (minimum c Surface Soil Cracks (B6 Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8)	of two required)) e (C2) rial Imagery (C9)
Type: not Depth (inches Remarks: The HYDROLOGY Vetland Hydrolog Primary Indicators Surface Wate High Water Ta Saturation (A3 Water Marks	e i: n/a hydric soil criterion is not n y Indicators: (minimum of one is required; cl (A1) ble (A2)) B1) osits (B2)	heck all that ap	Water-Stained Leave Aquatic Fauna (B13) True Aquatic Plants Hydrogen Sulfide Oc) (B14) dor (C1) res on Living	Roots (C3)	Hyc	tric Soil Present?	dary Indicators (minimum c Surface Soil Cracks (B6 Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae	of two required)) e (C2) rial Imagery (C9) nts (D1)
Type: non Depth (inches Remarks: The HYDROLOGY Metland Hydrolog Primary Indicators Surface Wate High Water Ta Saturation (AC Water Marks Sediment Dep	e hydric soil criterion is not n hydric soil criterion is not n y Indicators: (minimum of one is required; cl (A1) able (A2)) B1) osits (B2) (B3)	heck all that ap	Water-Stained Leave Aquatic Fauna (B13) True Aquatic Plants Hydrogen Sulfide Oc Oxidized Rhizosphe) (B14) dor (C1) eres on Living ed Iron (C4)		Hyc	tric Soil Present?	dary Indicators (minimum c Surface Soil Cracks (B6 Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Stunted or Stressed Plar	of two required)) e (C2) rial Imagery (C9) nts (D1)
Type: non Depth (inches Remarks: The HYDROLOGY Metland Hydrolog Primary Indicators Surface Wate High Water Ta Saturation (A3 Water Marks Sediment Dep Drift Deposits	e he hydric soil criterion is not n hydric soil criterion is not n hydricators: (minimum of one is required; cl (A1) able (A2))) B1) osits (B2) (B3) rust (B4)	heck all that ap	Water-Stained Leave Aquatic Fauna (B13) True Aquatic Plants Hydrogen Sulfide Or Oxidized Rhizosphe Presence of Reduce) (B14) dor (C1) res on Living l ed Iron (C4) on in Tilled Sc		Hyc	tric Soil Present?	dary Indicators (minimum c Surface Soil Cracks (B6 Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Stunted or Stressed Plar Geomorphic Position (D	of two required)) e (C2) rial Imagery (C9) nts (D1)
Type: not Depth (inches Remarks: The HYDROLOGY Wetland Hydrolog Primary Indicators Surface Wate High Water Ta Saturation (A3 Water Marks i Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	e i: n/a hydric soil criterion is not n hydric soil criterion is not n n hydric soil criterion is not n hydric soil criterion is not n h	heck all that ap	Water-Stained Leav Aquatic Fauna (B13) True Aquatic Plants Hydrogen Sulfide Oc Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (Gauge or Well Data) (B14) dor (C1) res on Living I ed Iron (C4) on in Tilled Sc (C7) (D9)		Hyc	tric Soil Present?	dary Indicators (minimum c Surface Soil Cracks (B6 Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Stunted or Stressed Plar Geomorphic Position (D	of two required)) e (C2) rial Imagery (C9) nts (D1)
Type: not Depth (inches Remarks: The HYDROLOGY Wetland Hydrolog Primary Indicators Surface Wate High Water Ta Saturation (A3 Water Marks i Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis	e i: n/a hydric soil criterion is not n hydric soil criterion is not n y Indicators: (minimum of one is required; cl (A1) able (A2)) B1) osits (B2) (B3) rust (B4) (B5)	heck all that ap	Water-Stained Leav Aquatic Fauna (B13) True Aquatic Plants Hydrogen Sulfide Ot Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface () (B14) dor (C1) res on Living I ed Iron (C4) on in Tilled Sc (C7) (D9)		Hyc	tric Soil Present?	dary Indicators (minimum c Surface Soil Cracks (B6 Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Stunted or Stressed Plar Geomorphic Position (D	of two required)) e (C2) rial Imagery (C9) nts (D1)
Type: not Depth (inches Remarks: The HYDROLOGY Wetland Hydrolog Primary Indicators Surface Wate High Water Ta Saturation (A3 Water Marks - Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege	e i: n/a hydric soil criterion is not n y Indicators: (minimum of one is required; cl (A1) able (A2)) B1) osits (B2) (B3) rust (B4) (B5) ible on Aerial Imagery (B7) stated Concave Surface (B8) 5:	heck all that ap	Water-Stained Leav Aquatic Fauna (B13) True Aquatic Plants Hydrogen Sulfide Oc Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (Gauge or Well Data) (B14) dor (C1) res on Living I ed Iron (C4) on in Tilled Sc (C7) (D9)		Hyc	tric Soil Present?	dary Indicators (minimum c Surface Soil Cracks (B6 Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Stunted or Stressed Plar Geomorphic Position (D	of two required)) e (C2) rial Imagery (C9) nts (D1)
Depth (inches Remarks: The HYDROLOGY Wetland Hydrolog Primary Indicators Surface Wate High Water Ta Saturation (A3 Water Marks - Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Field Observation Surface Water Pre:	e i: n/a hydric soil criterion is not n hydric soil criteri	heck all that ap	Water-Stained Leav Aquatic Fauna (B13) True Aquatic Plants Hydrogen Sulfide Oc Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (Gauge or Well Data Other (Explain in Re) (B14) dor (C1) res on Living I ed Iron (C4) on in Tilled Sc (C7) (D9)		Hyc	tric Soil Present?	dary Indicators (minimum c Surface Soil Cracks (B6 Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Stunted or Stressed Plar Geomorphic Position (D	of two required)) e (C2) rial Imagery (C9) nts (D1)
Type: not Depth (inches Remarks: The HYDROLOGY Wetland Hydrolog Primary Indicators Surface Wate High Water Ta Saturation (A3 Water Marks - Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Field Observation	e i n/a bydric soil criterion is not n y Indicators: (minimum of one is required; cl (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) ble on Aerial Imagery (B7) otated Concave Surface (B8) s: sent? Yes		Water-Stained Leaw Aquatic Fauna (B13) True Aquatic Plants Hydrogen Sulfide Oc Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface (Gauge or Well Data Other (Explain in Re) (B14) dor (C1) res on Living I ed Iron (C4) on in Tilled Sc (C7) (D9)		Hyc	Iric Soil Present?	dary Indicators (minimum c Surface Soil Cracks (B6 Drainage Patterns (B10) Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Stunted or Stressed Plar Geomorphic Position (D	of two required)) e (C2) rial Imagery (C9) nts (D1)

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

Project/Site: Southbrook Church		City/County: Franklin, Milwaukee	Sampling Date: July 24, 2012						
Applicant/Owner: Southbrook C	hurch	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 Cl	assification: 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			·						
Are Vegetation <u>No</u> Soil	, , , ,,								
		g point locations, transects, important featu	ires, etc.						
Hydrophytic Vegetation Present?		Is the Sampled Area							
Hydric Soil Present?		within a Wetland?	Yes <u>X</u> No <u> </u>						
Wetland Hydrology Present?	Yes X No	If yes, optional wetland site ID	·						
Remarks: *4-6 inches below average precipitation - drought conditions **Problem soil - Mollisol ** This is a depressional wetland with seasonal hydrology									
VEGETATION - Use scientific	names for plants.		Sampling Point: T-3 DP-6 (wtd)						
Tree Stratum (Plot size: 30'R	Absolute % Dominant) Cover Species	Indicator Dominance Test Work	<pre>csheet:</pre>						
1100 Otratum (1101 5120. 30 n	j Gover Species	<u>Status</u> Number of Dominant Sp	pecies						
1. <i>Populus deltoides</i> 2.		That Are OBL, FACW, o	or FAC: <u>3</u> (A)						
3.		Total Number of Domin	ant						
4.		Species Across All Stra	ata: <u>3</u> (B)						
5 6.		Percent of Dominant Sp	neries						
6 7		That Are OBL, FACW, o							
	20 = Total Cover								
		Prevalence Index Wor							
			over of: Multiply by: x 1 =						
Sapling/Shrub Stratum (Plot size:	<u>15'R)</u>	FACW species	x 2 =						
1. Salix interior	40 Y F	ACW FAC species	x 3 =						
2		FACU species	x 4 =						
3		UPL species	x 5 = (D)						
4 5		Column Totals:	(A) (B)						
5 6		Prevalence In	idex B/A =						
7									
	40 = Total Cover	Hydrophytic Vegetatio	on Indicators: id Test for Hydrophytic Vegetation						
			inance Test is >50%						
			valence index is $\leq 3.0^{1}$						
Herb Stratum (Plot size: 5'R)	Morp	phological Adaptations ¹ (Provide supporting						
1. Phalaris arundinacea			ta in Remarks or on separate sheet)						
 Poa pratensis Euthamia graminifolia 		AC Prob	lematic Hydrophytic Vegetation ¹ (Explain)						
4. Lycopus americanus		DBL							
5. Persicaria amphibia			il and wetland hydrology must						
6. Poa palustris	2 N F	ACW be present, unless dist	turbed or problematic.						
7									
8 9									
10.									
11.									
12									
13									
14	162 = Total Cover								
Woody Vine Stratum (Plot size: n/a)								
₁									
2.									
3.		Hydrophytic							
4	0 = Total Cover	Vegetation Present?	Vos Y No						
	0 = Total Cover	Present?	Yes <u>X</u> No						
Remarks: (Include photo numbers here	e or on a separate sheet.)								

The hydrophytic vegetation criterion is met. The plant community is shrub-carr.

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

-	(Describe to the depth need	ded to docur	nent the indicator			f indicato	ors.)	
Depth	Matrix			Redox Feat		. 2		- ·
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	<u>Type</u>	Loc ²	Texture	Remarks
0-12	10YR 2/1	100					silty clay loan	
12-20	10YR 5/1	80	10YR 5/8	20	С	M	silty clay	
					_			
			· · · · · · · · · · · · · · · · · · ·					
<u> </u>	·						·	
<u> </u>			· ·				·	
			· · · · · · · · · · · · · · · · · · ·					
	. <u></u>							
<u> </u>			· ·				·	
1						2		
Type: C=Concentra	tion, D=Depletion, RM=Reduce	ed Matrix, CS	=Covered or Coate	d Sand Grain	IS.	-	² Location: PL=Pore Lining	, M=Matrix
Hydric Soil Indicato	ors:						Indicators for P	roblematic Hydric Soils ³ :
Histosol (A1)		:	Sandy Gleyed Matri	ix (S4)				Prairie Redox (A16) (LRR,K,L,R)
Histic Epipedon	(A2)		Sandy Redox (S5)	• /				urface (S7) (LRR,K,L)
Black Histic (A3			Stripped Matrix (S6)				ucky peat or peat (S3) (LRR,K,L)
Hydrogen Sulfid			_oamy Mucky Mine					nganese Masses (F12) (LRR,K,L,R)
Stratified Layers			_oamy Gleyed Matr	. ,				allow Dark Surface (TF12)
2 cm Much (A10	D)		Depleted Matrix (F3	3)			Other (E	Explain in Remarks)
Depleted Below	Dark Surface (A11)		Redox Dark Surfac	e (F6)				
X Thick Dark Surf	ace (A12)		Depleted Dark Surfa	ace (F7)				
Sandy Mucky M	lineral (S1)		Redox Depressions	(F8)				
							³ Indicators of hy	drophytic vegetation and wetland
							hydrology must b	pe present, unless disturbed or
							problematic.	
Restrictive Layer (if	observed):				1			
Type: none								
Depth (inches):							Hydric Soil Present?	Yes X No
						-		
Remarks: The I	hydric soil criterion is met.							
HYDROLOGY								
Wetland Hydrology	Indicators:						Socord	ary Indicators (minimum of two required)
		ook all that an					00000	Surface Soil Cracks (B6)
	ninimum of one is required; che			(5.0)		_		
Surface Water (Water-Stained Leav					Drainage Patterns (B10)
High Water Tab	le (A2)		Aquatic Fauna (B13					Dry-Season Water Table (C2)
Saturation (A3)			True Aquatic Plants	. ,				Crayfish Burrows (C8)
Water Marks (B			Hydrogen Sulfide O		5 . (68)			Saturation Visible on Aerial Imagery (C9)
Sediment Depos			Oxidized Rhizosphe	•	HOOTS (C3)			Stunted or Stressed Plants (D1)
Drift Deposits (E	,		Presence of Reduce	()			<u> </u>	_ Geomorphic Position (D2)
Algal Mat or Cru			Recent Iron Reduct		60IIS (C6)		<u> </u>	FAC-Neutral Test (D5)
Iron Deposits (B			Thin Muck Surface					
	le on Aerial Imagery (B7)		Gauge or Well Data	. ,				
Sparsely vegeta	ated Concave Surface (B8)		Other (Explain in Re	emarks)				
						1		
Field Observations:								
Surface Water Prese		No <u>X</u>	Depth (inches):		_			
Water Table Present		No <u>X</u>	Depth (inches):		_			
Saturation Present? (includes capillary fri	Yes	No <u>X</u>	Depth (inches):		-		Wetlan	d Hydrology Present? Yes X No
						1		
Describe Recorded D	Data (stream gauge, monitoring	g well, aerial p	photos, previous ins	pections), if a	available:			
WWI Map, NRCS So	oils Map, aerials, AHPS Preci	pitation data	, Milwaukee Coun	ty WETS tab	ole			
Remarks: Seas	onal wetland hydrology is pr	esent, but s	econdary indicato	rs were obse	erved.			

Project/Site: Southb	rook Church				City/County:	Franklin, Milwaukee	Sampling Date: July 24, 2012		
	Southbrook Ch	nurch				State:	WI Sampling Point: T-4 DP-7 (upl)		
Investigator(s):	Heather Patti &	Tina Myers			Sec	tion, Township, Range:	NE 1/4 Sec 18, T5N, R21E		
Landform (hillslope, terr	race, etc.):	hillslope			Local relief (conc	ave, convex, none):	convex		
Slope (%): 2-3%		Lat: See Figure 2		Long: S	ee Figure 2		Datum: See Figure 2		
Soil Map Unit Name:		Ashkum silt	y clay loam (AsA	A), 0-3% slopes		WWI C	Classification: none		
Are climatic / hydrologic	conditions on th	ne site typical for this time o	f year?		Yes	No *X	(if no, explain in Remarks)		
Are Vegetation	No Soil	No or Hydrology	<u>No</u> significa	•		Normal Circumstances	·		
Are Vegetation	**Yes Soil	**Yes or Hydrology	No naturally	problematic?	(if ne	eded, explain any answ	vers in Remarks)		
SUMMARY OF FI	NDINGS	Attach site map sho	wing samplir	ng point loca	tions, transect	s, important featu	ures, etc.		
Hydrophytic Vegetation	Present?	Yes	No	X	Is the	Sampled Area	·		
Hydric Soil Present?		Yes		<u>x</u>		a Wetland?	Yes NoX		
Wetland Hydrology Pres	sent?	Yes		<u>x</u>		, optional wetland site I			
			•		,	· 1			
	Remarks: *4-6 inches below average precipitation - drought conditions **Soil is a mollisol with a dark surface horizon, but vegetation and landscape position are indicative of uplands.								
VEGETATION - U	se scientific	•					Sampling Point: T-4 DP-7 (upl)		
Tree Stratum (Plot size:	n/a	Absolute %) Cover	Dominant Species	Indicator Status		Dominance Test Wo	rksheet:		
1100 01/4(4) (1101 0)201			opeoleo	Olalus		Number of Dominant S	Species		
1						That Are OBL, FACW,	, or FAC: <u>2</u> (A)		
2 3.						Total Number of Domi	inant		
				· <u> </u>		Species Across All Str			
-							(=)		
6		·				Percent of Dominant S	•		
7		0 =	Total Cover			That Are OBL, FACW,	, or FAC: <u>40%</u> (A/B)		
						Prevalence Index Wo	orksheet:		
						Total % C			
	(DL) .					OBL species	x 1 =		
Sapling/Shrub Stratum (1. Cornus racemosa		<u>15'R)</u> 10	v	FAC		FACW species FAC species	x 2 = x 3 =		
2. Lonicera x bella	•	10	Ŷ	FACU		FACU species	x 4 =		
3.						UPL species	x 5 =		
4						Column Totals:	(A) (B)		
5 6.						Prevalence	Index B/A =		
7.		·							
		20 =	Total Cover			Hydrophytic Vegetat			
							pid Test for Hydrophytic Vegetation minance Test is >50%		
							evalence Index is $\leq 3.0^{1}$		
Herb Stratum (Plot size:	: 5'R)				Mor	rphological Adaptations ¹ (Provide supporting		
1. Poa pratensis		60	<u>Y</u>	FAC			ata in Remarks or on separate sheet)		
2. <u>Daucus carota</u> 3. Solidago canader	nsis	<u> </u>	<u>Y</u> Y	UPL FACU		Pro	blematic Hydrophytic Vegetation ¹ (Explain)		
4. Trifolium hybridu		10	N	FAC					
5. Symphotrichum no		5	N	FACW		,	soil and wetland hydrology must		
6. Cichorium intybu		5	<u> </u>	FACU		be present, unless di	isturbed or problematic.		
7. Fraxinus pennsyl 8. Erigeron annuus		<u> </u>	<u> </u>	FACW FACU					
9.									
10									
11				<u> </u>					
12 13				·					
		197	Total Cover						
Woody Vine Stratum (P	lot size: n/a)							
1.		· · · · · · · · · · · · · · · · · · ·							
2.		·		·					
						Hydrophytic			
4			Tatal C			Vegetation	Ver tv N		
		0	= Total Cover			Present?	Yes <u>*X</u> No		
Remarks: (Include photo		· · · · ·			•				
*Vegetation is me		pass PI and data point la	cks hydric soil a	nd wetland hydr	ology. Poa praten	sis, a FAC species, is	more indicative		

*Vegetation is met but does not pa of uplands in this circumstance.

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

epth	Matrix			Redox Featu	res				
nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0-3	10YR 3/1	100	-				silty clay		
3-10	10YR 4/3	100	-				silty clay		
10-20	10YR 4/3	95	10YR 4/6	5	С	М	silty clay		
			· · · · · ·						
Type: C=Concentra	tion, D=Depletion, RM=Reduc	ed Matrix, CS=0	Covered or Coated	Sand Grains.		² Lc	cation: PL=Pore Lining	g, M=Matrix	
ydric Soil Indicato	ors:						Indicators for I	Problematic Hyd	ric Soils ³ :
Histosol (A1)		S	andy Gleyed Matri	x (S4)			Coast I	Prairie Redox (A1	6) (LRR,K,L,R)
Histic Epipedon	(A2)	s	andy Redox (S5)				Dark S	urface (S7) (LRR	,K,L)
Black Histic (A3			tripped Matrix (S6)					nucky peat or peat	
Hydrogen Sulfid			oamy Mucky Miner	()					s (F12) (LRR,K,L,R)
Stratified Layers			oamy Gleyed Matri	. ,				hallow Dark Surfa	, ,
2 cm Much (A10			epleted Matrix (F3 edox Dark Surface				Other (Explain in Remar	KS)
Thick Dark Surf	Dark Surface (A11)		epleted Dark Surface						
Sandy Mucky M			edox Depressions	()					
				()					
							³ Indicators of hy	ydrophytic vegetat	ion and wetland
							hydrology must	be present, unles	s disturbed or
							problematic.		
estrictive Layer (if	observed):								
Type: none	•								
Depth (inches):	n/a					Hyd	dric Soil Present?	Yes	No X
emarks: The I	nydric soil criterion is not m	et.							
IYDROLOGY									
etland Hydrology	Indicators:						Second	dary Indicators (m Surface Soil Cr	inimum of two required)

wetland Hydrology Indicators:	Secondary indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)			
Surface Water (A1) Water-Stained Leaves (B9)	Drainage Patterns (B10)			
High Water Table (A2) Aquatic Fauna (B13)	Dry-Season Water Table (C2)			
Saturation (A3) True Aquatic Plants (B14)	Crayfish Burrows (C8)			
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)			
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3)	Stunted or Stressed Plants (D1)			
Drift Deposits (B3) Presence of Reduced Iron (C4)	Geomorphic Position (D2)			
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)			
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)				
Field Observations: Surface Water Present? Yes Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS table	Wetland Hydrology Present? Yes No X			
Remarks: No wetland hydrology indicators present.				

Project/Site: Southbrook Church	1		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 Pat	ti & 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 (As	sA), 0-3% slopes	WWI Classification: E2K						
Are climatic / hydrologic conditions o	n the site typical for this time of year?		Yes No *X (if no, explain in Remarks)						
Are Vegetation No Sc	il <u>No</u> or Hydrology <u>No</u> significa	antly disturbed?	Are "Normal Circumstances" present? Yes X No						
Are Vegetation <u>No</u> So		y problematic?	(if needed, explain any answers in Remarks)						
			ions, transects, important features, etc.						
Hydrophytic Vegetation Present?			Is the Sampled Area						
Hydric Soil Present?			within a Wetland? Yes X No						
Wetland Hydrology Present?	Yes X No	·	If yes, optional wetland site ID: W-2						
Remarks: *4-6 inches below average precipitation - drought conditions **Problem soil - Mollisol ** depressional wetland with seasonal wetland hydrology									
VEGETATION - Use scientif	ic names for plants.		Sampling Point:						
Tree Stratum (Plot size: 30'R	Absolute % Dominant) Cover Species	Indicator	Dominance Test Worksheet:						
Thee Stratum (Flot Size. 30 h) Cover Species	Status	Number of Dominant Species						
1. Populus deltoides	<u> </u>	FAC	That Are OBL, FACW, or FAC: (A)						
2. Fraxinus pennsylvanica 3.	<u>10 N</u>	FACW	Total Number of Dominant						
4.			Species Across All Strata:5(B)						
5 6.			Percent of Dominant Species						
6 7			That Are OBL, FACW, or FAC: 100% (A/B)						
	60 = Total Cover		Prevalence Index Worksheet:						
			Total % Cover of: Multiply by:						
			OBL species x 1 =						
Sapling/Shrub Stratum (Plot size:	<u>15'R)</u>		FACW species x 2 =						
1. <u>Salix interior</u>	<u>40 Y</u>	FACW	FAC species x 3 =						
2. <u>Salix discolor</u> 3.	<u> </u>	FACW	FACU species X 4 = UPL species X 5 =						
3 4			UPL species x 5 = Column Totals: (A)(B)						
5.									
6			Prevalence Index B/A =						
7	50 = Total Cover	. <u> </u>	Hydrophytic Vegetation Indicators:						
			Rapid Test for Hydrophytic Vegetation						
			X Dominance Test is >50%						
			Prevalence Index is $\leq 3.0^{1}$						
Herb Stratum (Plot size: 5'R	<u>)</u> 50 Y	FACW	Morphological Adaptations ¹ (Provide supporting data in Remarks or on separate sheet)						
1. Phalaris arundinacea 2. Poa palustris	<u>40</u> Y	FACW FACW	Problematic Hydrophytic Vegetation ¹ (Explain)						
3. Apocynum cannabinum	40 Y	FAC							
4. Lycopus americanus	5 N	OBL							
5. Carex vulpinoidea	<u>3 N</u>	OBL	¹ Indicators of hydric soil and wetland hydrology must						
6. <i>Symphotrichum puniceum</i> 7. <i>Daucus carota</i>	<u> </u>	OBL UPL	be present, unless disturbed or problematic.						
8.		OFL							
9.									
10									
11									
12 13.		·							
14.									
	143 = Total Cover								
Woody Vine Stratum (Plot size: n/a)								
1									
2 3			Hydrophytic						
4.			Vegetation						
	0 = Total Cover		Present? Yes X No						
Remarks: (Include photo numbers he	ere or on a separate sheet.)								

The hydrophytic vegetation criterion is met. Plant community is a shrub carr wetland.

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

Profile Description:	(Describe to the depth neede	ed to docur	nent the indicato	r or confirm t	he absence o	f indicate	ors.)		
Depth	Matrix			Redox Feat		0			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		Texture	Remarks
0-3	10YR 3/1	100	-					silty clay	
3-14	10YR 3/1	90	10YR 5/6	10	C	М		silty clay	
14-20	10YR 5/2	90	10YR 5/8	10	С	М		silty clay	
					· ·				
					· · ·				
	·								
¹ Type: C=Concentrati	ion, D=Depletion, RM=Reduced	d Matrix, CS	=Covered or Coate	ed Sand Grain	s.		² Locati	ion: PL=Pore Lining	, M=Matrix
		,							_
Hydric Soil Indicator	5.								Problematic Hydric Soils ³ :
Histosol (A1)			Sandy Gleyed Mati	rix (S4)					Prairie Redox (A16) (LRR,K,L,R)
Histic Epipedon ((A2)		Sandy Redox (S5)						urface (S7) (LRR,K,L)
Black Histic (A3)			Stripped Matrix (Se						ucky peat or peat (S3) (LRR,K,L)
Hydrogen Sulfide			_oamy Mucky Mine						anganese Masses (F12) (LRR,K,L,R)
Stratified Layers			_oamy Gleyed Mat	. ,					nallow Dark Surface (TF12)
2 cm Much (A10)			Depleted Matrix (F					Other (I	Explain in Remarks)
	Dark Surface (A11)		Redox Dark Surfa						
Thick Dark Surfa	. ,		Depleted Dark Sur	. ,					
Sandy Mucky Mi	nerai (ST)	'	Redox Depression	S (ГО)					
								3	
									drophytic vegetation and wetland
									be present, unless disturbed or
								problematic.	
					1				
Restrictive Layer (if	observed):								
Type: none									
Depth (inches):	n/a						Hydric	Soil Present?	Yes X No
Demention									
Remarks:	udria agil gritarian ia mat								
The n	ydric soil criterion is met.								
HYDROLOGY									
Indholoan									
Wetland Hydrology I	Indicators:							Second	lary Indicators (minimum of two required)
Primary Indicators (mi	inimum of one is required; chec	k all that ap	ply)						Surface Soil Cracks (B6)
Surface Water (A	\1)	l l	Nater-Stained Lea	ves (B9)					Drainage Patterns (B10)
High Water Table			Aquatic Fauna (B1	()					Dry-Season Water Table (C2)
Saturation (A3)	- ()		True Aquatic Plants						Crayfish Burrows (C8)
Water Marks (B1)		Hydrogen Sulfide C	. ,					Saturation Visible on Aerial Imagery (C9)
Sediment Deposi			Oxidized Rhizosph		Roots (C3)				Stunted or Stressed Plants (D1)
Drift Deposits (B	. ,		Presence of Reduc	•	x /			x	Geomorphic Position (D2)
Algal Mat or Crus			Recent Iron Reduct		oils (C6)			X	FAC-Neutral Test (D5)
Iron Deposits (B5			Thin Muck Surface		()				_ ()
	e on Aerial Imagery (B7)		Gauge or Well Data						
	ted Concave Surface (B8)		Other (Explain in R						
Field Observations:									
	t2 Vaa	No Y	Dopth (inches)			1			
Surface Water Presen Water Table Present?		No X No X	Depth (inches): Depth (inches):		-	1			
Saturation Present?	Yes	No X	Depth (inches):		-			Wetlan	d Hydrology Present? Yes X No
(includes capillary frin					-			Wellan	<u> </u>
		well agricit	botos providuo in	enectione) if a	vailablo				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS table									
Demarka This		an a						t	
Remarks: This is	s a depressional area with se	asonal wet	ana nyarology, b	ut secondary	wettand indi	cators a	e pres	ent.	

Project/Site: Southl	brook Church					City/Co	unty: Franklin, Milwaul	kee	Sampling Date: July 24, 2012
Applicant/Owner:	Southbrook C	hurch					State:	w	VI Sampling Point: T-5 DP-9 (upl)
Investigator(s):	Heather Patti &	k Tina My	ers				Section, Township, I	Range:	NE 1/4 Sec 18, T5N, R21E
Landform (hillslope, ter	rrace, etc.):	hillslope	1			Local relief	(concave, convex, no	ne):	convex
Slope (%): 2-3%		Lat:	See Figure 2			ee Figure 2			Datum: See Figure 2
Soil Map Unit Name:				silt loam (BIA),	1-3% slopes				ssification: none
Are climatic / hydrologi				•		Yes		*X	(if no, explain in Remarks)
Are Vegetation	**Yes Soil		or Hydrology		antly disturbed?		Are "Normal Circums		
Are Vegetation	<u>No</u> Soil	res	or Hydrology	<u>no</u> naturali	y problematic?		(if needed, explain an	ly answers	s in Remarks)
SUMMARY OF F	INDINGS	Attach	site map sho	wing sampl	ing point loca	ations, tran	sects, importan	t feature	es, etc.
Hydrophytic Vegetation	n Present?		Yes X	No			Is the Sampled Area		
Hydric Soil Present?			Yes	No	<u> </u>		within a Wetland?		Yes <u>No X</u>
Wetland Hydrology Pre	esent?		Yes	No	X		If yes, optional wetlan	nd site ID:	
Remarks: *4-6 inches below average precipitation - drought conditions **Mowed grass **Soil has dark surface horizon, but vegetation and landscape position are indicative of uplands.									
VEGETATION - U	Use scientific	names f	or plants.						Sampling Point: T-5 DP-9 (upl)
Tree Stratum (Plot size	o: n /a)	Absolute % Cover	Dominant Species	Indicator		Dominance Te	est Works	sheet:
	e. 11/a	<u>)</u>	Cover	Species	Status		Number of Don	ninant Spe	ecies
1 2.							That Are OBL,		
3.							Total Number of Species Across		
4 5		- ·					Species Acios	S All Ollala	(D)
6					. <u> </u>		Percent of Dom That Are OBL,		
<i>1</i>			0 =	Total Cover			That Are OBL,	FACVV, OF	FAC: <u>100%</u> (A/B)
							Prevalence Inc		
								otal % Cove	
Sapling/Shrub Stratum	(Plot size:	<u>n/a)</u>					OBL species FACW species		$\begin{array}{c} 0 \\ \hline 0 \\ x2 = \\ \end{array} $
1.	1 (1 101 0120.	<u>m/a /</u>					FAC species		$110 \times 3 = 330$
2.							FACU species		25 x 4 = 100
3.							UPL species		0 x 5 = 0
							Column Totals:		135 (A) 430 (B)
							Preva	alence Inde	lex B/A = 3.2
7.		- ·							
		-	0=	Total Cover			Hydrophytic V	-	n Indicators: Test for Hydrophytic Vegetation
							x		nance Test is >50%
									lence Index is $\leq 3.0^1$
Herb Stratum (Plot size	e: 5'R)							nological Adaptations ¹ (Provide supporting
1. Poa pratensis			100 10	<u> </u>	FAC FAC				in Remarks or on separate sheet)
2. Plantago major 3. Taraxacum offic	inale		10	<u> </u>	FACU			FIUDIEI	ematic Hydrophytic Vegetation ¹ (Explain)
4. Elytrigia repens			10	N	FACU				
5. Trifolium repens			5	N	FACU				and wetland hydrology must
6							be present, ur	nless distur	irbed or problematic.
7 8.					·				
9.									
10.									
11									
13 14.									
· · · ·			135 =	Total Cover					
Woody Vine Stratum (I	Plot size: n/a)							
1.									
2						_			
3							Hydrophytic		
4				= Total Cover	. <u></u>		Vegetation Present?		Yes X No
									···· <u>··</u> ·····
Remarks: (Include pho This is a manicured a			. ,	nted and this ar	ea lacks hydric s	oil and wetlar	nd hydrology.		

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

Profile Description:	(Describe to the depth neede	d to docur	ment the indicator	r or confirm th	ne absence of	indicat	ors.)				
Depth	Matrix			Redox Feat	ures						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	-	Texture	Remar	rks	
0-10	10YR 3/2	100	-				-	silty clay			
10-12	10YR 3/2	95	10YR 5/8	5	c	М	_	silty clay			
12-20	10YR 5/3	95	10YR 5/8	5	С	М		silty clay			
					_		-				
							-				
							-				
	·						-				
							-	<u> </u>			
							-				
					_		-				
				-			-				
						_	-				
							-				
¹ Type: C=Concentration	on, D=Depletion, RM=Reduced	Matrix, CS	=Covered or Coate	ed Sand Grains	S.		² Loca	ation: PL=Pore Lining	, M=Matrix		
Hydric Soil Indicator	s:							Indicators for P	Problematic Hydric Soils ³	3	
Histosol (A1)			Sandy Gleyed Mat	rix (S4)					Prairie Redox (A16) (LRR,I		
Histic Epipedon (A2)		Sandy Redox (S5)						urface (S7) (LRR,K,L)	,=,,	
Black Histic (A3)			Stripped Matrix (S						ucky peat or peat (S3) (LR	R,K,L)	
Hydrogen Sulfide	(A4)		Loamy Mucky Min						anganese Masses (F12) (L		
Stratified Layers	(A5)		Loamy Gleyed Ma	trix (F2)				Very Sh	nallow Dark Surface (TF12	2)	
2 cm Much (A10)			Depleted Matrix (F	3)				Other (B	Explain in Remarks)		
	Dark Surface (A11)		Redox Dark Surfa								
Thick Dark Surface	. ,		Depleted Dark Sur								
Sandy Mucky Mir	neral (S1)		Redox Depression	s (F8)							
								3			
									drophytic vegetation and w		
									be present, unless disturbe	ed or	
								problematic.			
D					1						
Restrictive Layer (if o Type: none	Doserved):										
Depth (inches):	n/a						Hydri	ic Soil Present?	Yes	No X	
Deptri (inches).	II/d						nyun	ic son Fresent?	165	No <u>X</u>	
Remarks: Soils a	are borderline hydric but are r	not auite m	net.								
	· · · · · · · · · · · · · · · · · · ·										
HYDROLOGY											
Wetland Hydrology I	ndicators:							Second	ary Indicators (minimum o	f two required)	
Primary Indicators (mi	nimum of one is required; check	< all that ap	ply)						Surface Soil Cracks (B6))	
Surface Water (A	.1)		Water-Stained Lea	ives (B9)					Drainage Patterns (B10)		
High Water Table	e (A2)		Aquatic Fauna (B1	3)					Dry-Season Water Table	e (C2)	
Saturation (A3)			True Aquatic Plant	s (B14)					Crayfish Burrows (C8)		
Water Marks (B1))		Hydrogen Sulfide (Saturation Visible on Aer	rial Imagery (C9)	
Sediment Deposi			Oxidized Rhizosph	•	Roots (C3)				Stunted or Stressed Plan		
Drift Deposits (B3	,		Presence of Reduc	· · · /					Geomorphic Position (D2	2)	
Algal Mat or Crus			Recent Iron Reduc		ioils (C6)				FAC-Neutral Test (D5)		
Iron Deposits (B5			Thin Muck Surface								
	e on Aerial Imagery (B7)		Gauge or Well Dat								
Sparsely Vegetat	ed Concave Surface (B8)		Other (Explain in F	(emarks)							
						1					
Field Observations:											
Surface Water Presen		No X	Depth (inches):		_						
Water Table Present?		No <u>X</u>	Depth (inches):		_						
Saturation Present? (includes capillary fring	Yes	No <u>X</u>	Depth (inches):		-			Wetlan	d Hydrology Present?	Yes No	X
	ata (stream gauge, monitoring w										
WWI Map, NRCS Soi	Is Map, aerials, AHPS Precipit	tation data	i, Milwaukee Cour	ity WETS tab	le						
Demostrat No.											
Remarks: No we	tland hydrology indicators pr	esent.									

Project/Site: Southbrook Church			City/County: Franklin, Milwaukee Sa	mpling Date: July 24, 2012						
Applicant/Owner: Southbrook Church			State: WI	Sampling Point: T-5 DP-10 (wtd)						
Investigator(s): Heather Patti & Tina M	yers		Section, Township, Range: NE	E 1/4 Sec 18, T5N, R21E						
Landform (hillslope, terrace, etc.): depres	sion	L	Local relief (concave, convex, none): sli	ghtly concave						
Slope (%): 0% Lat:	ů	Long: See I		Datum: See Figure 2						
Soil Map Unit Name:	Ashkum silty clay loam (As	A), 0-3% slopes		ation: E2K						
Are climatic / hydrologic conditions on the site ty			`	no, explain in Remarks)						
	or Hydrology <u>No</u> significa or Hydrology ** Yes naturally	ntly disturbed?	Are "Normal Circumstances" present							
Are Vegetation No Soil **Yes	5 of Hydrology <u>res</u> haturally	problematic :	(if needed, explain any answers in Re	enaits)						
SUMMARY OF FINDINGS Attach	site map showing sampli	ng point locatio	ons, transects, important features, e	etc.						
Hydrophytic Vegetation Present?	Yes X No		Is the Sampled Area							
Hydric Soil Present?	Yes X No		within a Wetland?	Yes X No						
Wetland Hydrology Present?	Yes X No		If yes, optional wetland site ID:	W-3						
Bemarks: *4-6 inches below average pre	Remarks: *4-6 inches below average precipitation - drought conditions									
• ·	is is a depressional area with sea	isonal wetland hydr	ology.							
VEGETATION - Use scientific names	•			Sampling Point: T-5 DP-10 (wtd)						
Tree Stratum (Plot size: 30'R)	Absolute % Dominant Cover Species	Indicator Status	Dominance Test Worksheet:							
<u> </u>			Number of Dominant Species							
1. Fraxinus pennsylvanica	<u>20 Y</u>	FACW	That Are OBL, FACW, or FAC	2 (A)						
3.	<u> </u>		Total Number of Dominant							
4.			Species Across All Strata:	2 (B)						
5										
6 7.			Percent of Dominant Species That Are OBL, FACW, or FAC	: 100% (A/B)						
	20 = Total Cover			(==)						
			Prevalence Index Worksheet							
			Total % Cover of: OBL species	Multiply by: x 1 =						
Sapling/Shrub Stratum (Plot size: <u>n/a</u>))			x 2 =						
1				x 3 =						
2				× 4 =						
3 4.			UPL species Column Totals:	x 5 = (A) (B)						
5.										
6			Prevalence Index B/	A =						
7	0 = Total Cover		Hydrophytic Vegetation Indi	cators:						
				for Hydrophytic Vegetation						
				Test is >50%						
				Index is $\leq 3.0^{1}$						
Herb Stratum (Plot size: 5'R) 1. Carex stricta	<u>)</u> 60 Y	OBL		cal Adaptations ¹ (Provide supporting emarks or on separate sheet)						
2. Phalaris arundinacea	40 Y	FACW		Hydrophytic Vegetation ¹ (Explain)						
3.										
4			1							
5 6.			¹ Indicators of hydric soil and v be present, unless disturbed							
7				- p						
8										
9	<u> </u>									
10 11										
12.										
13										
14	100 = Total Cover									
Woody Vine Stratum (Plot size: n/a)									
	<u> </u>									
1										
2			Lindrambriti-							
3 4.	·		Hydrophytic Vegetation							
	0 = Total Cover		Present?	Yes X No						
Remarks: (Include photo numbers here or on a s	separate sheet.)									

The hydrophytic vegetation criterion is met. This is a fresh (wet) meadow plant community.

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

Name		: (Describe to the depth need	ed to docum	ent the indicator			indicators	.)	
0-7 IV 078 21 90 IV 76 85 5 C M sity day 17.20 IV 76 85 10 C M sity day 17.20 IV 76 85 10 C M sity day 17.20 IV 76 85 10 C M sity day 17.20 IV 76 85 10 C M sity day 17.20 IV 76 85 10 C M sity day 17.20 IV 76 85 10 C M sity day 17.20 IV 76 85 17.20 IV 76 85 IV 76 85 <t< th=""><th>Depth (inches)</th><th></th><th>%</th><th>Color (moist)</th><th></th><th>1</th><th>Loc²</th><th>Texture</th><th>Bemarks</th></t<>	Depth (inches)		%	Color (moist)		1	Loc ²	Texture	Bemarks
Image: set of the set of th									nemana
17.20 19/15 Still 90 19/15 Still 10 C M Bity cby 17.20 19/15 Still 90 19/15 Still 10 C M Bity cby 17.20 19/15 Still 10 C M Bity cby 17.20 10 10 10 10 10 17.20 10 10 10 10 10 17.20 10 10 10 10 10 17.20 10 10 10 10 10 17.20 10 10 10 10 10 17.20 10 10 10 10 10 17.20 10 10 10 10 10 17.20 10 10 10 10 10 17.20 10 10 10 10 10 17.20 10 10 10 10 10 17.20 10 10 10 10 10 17.20 10 10 10 10 10 17.20 10 10 10 10 10 17.20 10 10 10 10 1	0-17	101112/1							
Image: Concentration, Dubgristion, RML-Reduced Matrix, CSL-Covered or Costed Stard Grains * Location: PLPops Lining, MLAtterx "Type: Concentration, Dubgristion, RML-Reduced Matrix, CSL-Covered or Costed Stard Grains * Location: PLPops Lining, MLAtterx "Hytel: Sol Indicators: Indicators: Indicators: "Hytel: Sol Indicators: Sandy Cleved Matrix, (S1) Indicators: Hytel: Sol Indicators: Sandy Cleved Matrix, (S1) Indicators: Hytel: Sol Indicators: Sandy Cleved Matrix, (S2) Sandy Cleved Matrix, (S1) Brack Hate; (X3) Sandy Cleved Matrix, (S2) Sandy Cleved Matrix, (S2) Decident Elabors: Coast Funct (S1) Coast Funct (S1) Decident Elabors: Coast Surface (T12) Others: (S0) Decident Elabors: Restarces (T2) Decident Elabors: No	17.00								
the Soli Indicators:	17-20	10YR 5/1	90	10YR 5/8	10	C	M	slity clay	
the Soli Indicators:									
the Soli Indicators:								<u> </u>	
the Soli Indicators:									
the Soli Indicators:									
the Soli Indicators:									
the Soli Indicators:						·			
the Soli Indicators:									
the Soli Indicators:						·			
the Soli Indicators:									
the Soli Indicators:									
the Soli Indicators:									
Histic Exponent (A2) Bandy Relation (S3) Count Praining Record (S4) (LRRKL, LR) Block Huller (A3) Stripped Matrix (S6) Count Praining Record (S1) (LRRKL, LR) Stripped Matrix (S6) County Mulcity Mineral (F1) Data Stripped Matrix (F3) Depleted Data Variance (T1) Depleted Matrix (F3) Data Stripped Matrix (F3) Depleted Data Variance (T1) Depleted Data Variance (F7) Praint Data Stripped Matrix (F3) Depleted Data Variance (T2) Depleted Data Variance (F7) Praint Data Stripped Matrix (F3) Depleted Data Variance (T2) Depleted Data Variance (T7) Praint Data Stripped Matrix (F3) Depleted Data Variance (T2) Depleted Data Variance (T7) Praint Data Stripped Professore (T1) Depleted Data Variance (T2) Depleted Data Variance (T7) Praint Data Stripped Professore (T1) Premaria: The Order Present? Yes_X No	Type: C=Concentra	ation, D=Depletion, RM=Reduce	d Matrix, CS=	Covered or Coate	d Sand Grains		²L	ocation: PL=Pore Lining,	M=Matrix
Heste Exploredor (A2) Samoty Redox (S3) Black Heste (A3) Stripped Mark (S6) Hydrogen Sulide (A4) Loamy Gleged Mark (S6) Straffeet Darks Surface (A1) Charmy Gleged Mark (S1) Straffeet Dark Surface (A12) Depleted Boark Surface (F1) Depleted Boar Dark Surface (A12) Depleted Dark Surface (F2) Sandy Mucky Mineral (S1) Redox Desk Surface (F2) Perform Park Surface (A12) Depleted Dark Surface (F2) Sandy Mucky Mineral (S1) Redox Desk Surface (F2) Perform Park Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Desk Surface (F7) Perform Park Surface (A12) Depleted Dark Surface (F7) Meta Hydrology must be present; unless disturbed or problematic. Perform Park (F1) Depth (inches): nin Perform Park (F1) Yes X No	Hydric Soil Indicate	ors:						Indicators for P	roblematic Hydric Soils ³ :
Bitschristic (3) Bitspeet Matrix (58) Hydrogen Sulface (A1) Camry Muday Miner (F1) Stratified Layers (A5) Camry Muday Miner (F2) 2 om Much (A10) Depleted Matrix (F2) Depleted Balox Dark Surface (A11) Redox Dark Surface (F12) 2 mit Much (A10) Depleted Matrix (F2) Depleted Balox Dark Surface (A11) Redox Dark Surface (F6) Depleted Balox Dark Surface (A11) Redox Depressions (F8) Restrictive Layer (f) Observed): The: Dark Surface (A11) Type: no Depleted Balox Dark Surface (A11) Redox Depressions (F8) Restrictive Layer (f) Observed): The: Dark Surface (A11) Type: no Depthic Infinities: nia Permarks: The bydric soil criterion is met. WURDOLOGY Water-Started Lawers (B0) Surface Sulf Cracks (B6) Drainage Patterns (B10)	Histosol (A1)		S	andy Gleyed Matr	ix (S4)			Coast P	rairie Redox (A16) (LRR,K,L,R)
Hydrogen Sulfice (A1) Learry Ulevy Minera (F1) Learry Ulevy Minera (F1) Stratified Lysers (A5) Depicted Matrix (F3) Depicted Matrix (F3) Depicted Both Oark Surface (A11) Depicted Dark Surface (F7) Stratified Lysers (A12) Depicted Dark Surface (F7) Stratified Lyser (It observed): Trick. Dark Surface (A12) Depicted Both Surface (A12) Depicted Dark Surface (F7) Restrictive Lyser (It observed): Trick. Dark Surface (F8) Type: none Depicted Both Surface (A12) Depicted Dark Surface (F8) Mucky Mineral (S1) Restrictive Lyser (It observed): Type: none Depict Index Constructions in met. Hydric Soil Present? Yes_X No	Histic Epipedor	n (A2)							
Bit ratified Layers (A5) Loarny Oleyed Matrix (F2) Depicted Matrix (F3) Depicted Matrix (F3) Depicted Matrix (F3) Depicted Matrix (F3) Depicted Dark Surface (A1) X Sandy Mucky Mineral (S1) Practice (S1) Restrictive Layer (If observed): The back Surface (A1) Type: medicators of hydrophytic vegetation and weffand hydrology matrix. Restrictive Layer (If observed): Type: Type: medicators of hydrophytic vegetation and weffand hydrology matrix. Restrictive Layer (If observed): Type: Type: medicators (Termination of the present, unless disturbed or problematic. Remarks: The hydric soil criterion is met. HVDROLOGY Water Sainde Layers (B1) Water Table (A2) Aquatic Fauna (B14) Staturation (A3) The Aquate Parks (B1) Staturation (A3) Presence of Reduction (Tring Rise) Staturation (A3) Presence of Reduction (G2) Staturation (A3) Presence of Reduction (G2) Staturation Value on Average Matrix (D2) Staturation Value on Average Parks (D1) Staturation (A3) Presence of Reduction (G2) Thin Aquatat Brance (B14) Staturatin Val			s	tripped Matrix (S6	i)			5 cm mu	ucky peat or peat (S3) (LRR,K,L)
Braffield Layers (A5) Loarny Gloyed Matrix (F2) Depideed Matrix (F3) Depideed Matrix (F3) Metrix Matrix (F3) Depideed Matrix (F3) Matrix (F3) Staturation (F1) Matrix (F3) Staturation (F1) Matrix (F3) Staturation (F1) Matri					,				
□ pepteted Balow Dark Surface (A11) ▲ Rodox Dark Surface (F6) □ back Dark Surface (A12) □ Depteted Data ■ Sandy Mucky Mineral (S1) □ Pedeted Data ■ and the surface (A12) ■ And the surface (A12) ■ and the surface (A12) ■ And the surface (A12) ■ and the surface (A12) ■ And the surface (A12) ■ and the surface (A11) ■ Water-Stained Leaves (B9) ■ and the surface (A12) ■ And the surface (A12) ■ And the surface (A11) ■ Water-Stained Leaves (B9) ■ and the surface (A12) ■ And the surface (A12) ■ And the surface (A12) ■ And the surface (A12) ■ And the surface (A12) ■ And the surface (A12) ■ And the surface (A12) ■ And the surface (A12) ■ And the surface (A12) ■ And the surface (A12) ■ And the surface (A12) ■ And the surface (A12) ■ And the surface (A12) ■ And the surface (A12) ■ Surface Wa			L	oamy Gleyed Mat	rix (F2)				
Image: Standy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Depressions (F8) ^a Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If observed):									
	Depleted Below	v Dark Surface (A11)	XR	edox Dark Surfac	e (F6)				
**Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type:	X Thick Dark Sur	face (A12)	D	epleted Dark Surf	ace (F7)				
Restrictive Layer (I observed):	Sandy Mucky N	Mineral (S1)	R	edox Depressions	s (F8)				
Restrictive Layer (I observed):									
Problematic. Restrictive Layer (If observed); Typ: none Depth (inches): nini Hydric Soil Present? Yes _X_ No Permarks: The hydric Soil oriterion is met. Surface Soil criterion is met. Myteric Soil Present? Yes _X_ No Primary Indicators: Surface Soil Cracks (Bi) Drainage Patterns (Bi0) Primary Indicators (Iminium of one is required; check all that apply) Surface Soil Cracks (Bi0) Drainage Patterns (Bi0) Hydro boots (B2) Aquatic Fauna (B13) Drainage Patterns (Bi0) Drainage Patterns (Bi0) Saturation (A3) True Aquatic Patris (B(14) XC Craylish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Setained to Crust (B4) Recent Initied Soils (C6) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Sparsely regated Concave Surface (B8) Other (Explain in Remarks) Yes								³ Indicators of hyd	drophytic vegetation and wetland
Restrictive Layer (if observed): Type:								hydrology must b	be present, unless disturbed or
Restrictive Layer (if observed): Type:									•
Type::::none									
Type::::none	Restrictive Laver (i	if observed):							
Depth (inches): n/a Hydric Soil Present? Yes _ X _ No									
Remarks: The hydric soil criterion is met. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of one is required; check all that apply) Surface Surface Soil Cracks (B6) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) True Aquatic Flants (B14) Water Marks (B1) Hydrogen Sulface Odor (C1) Sediment Deposits (B2) Oxidized Finizospheres on Living Roots (C3) Onti Deposits (B3) Presence of Reduction in Tilled Solis (C6) Inon Deposits (B3) Recent Iron Reduction in Tilled Solis (C6) Inon Deposits (B3) Chery Recent of Reduction in Tilled Solis (C6) Inon Deposits (B3) Other (Explain in Remarks) Field Observations: Surface Of Surface (B8) Surface Water Present? Yes No Depth (inches): Under table Present? Yes Yes No Saturation Present? Yes No Depth (inches): Under table Present? Yes No Depth (inches): Under table Present? Yes No Depth (inches): Unduct							L.,	dria Sail Bragant?	Voo V No
The hydric soil oriterion is met. HYDROLOGY Watand Hydrology Indicators: Secondary Indicators (minimum of one is required; check all that apply)	Deptil (Inches).	. <u>II/a</u>					пу	and Son Present?	
The hydric soil oriterion is met. HYDROLOGY Watand Hydrology Indicators: Secondary Indicators (minimum of one is required; check all that apply)	Romarka:								
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		hydric coil critorion ic mot							
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) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) X Crayfish Burrows (C8) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation (Nisble on Aerial Imagery (C9) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Sturation (Visble on Aerial Imagery (C9) Algal Ma or Crust (B4) Recent from Reduction in Tilled Solis (C6) X Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Wetland Hydrology Present? Yes No X Depth (inches): (includes capillary fringe) No X Depth (inches): Wetland Hydrology Present? Yes No_ No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No Mo	The	inyune son criterion is met.							
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) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) X Crayfish Burrows (C8) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation (Nisble on Aerial Imagery (C9) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Sturation (Visble on Aerial Imagery (C9) Algal Ma or Crust (B4) Recent from Reduction in Tilled Solis (C6) X Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Wetland Hydrology Present? Yes No X Depth (inches): (includes capillary fringe) No X Depth (inches): Wetland Hydrology Present? Yes No_ No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No Mo									
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) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) X Crayfish Burrows (C8) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation (Nisble on Aerial Imagery (C9) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Sturation (Visble on Aerial Imagery (C9) Algal Ma or Crust (B4) Recent from Reduction in Tilled Solis (C6) X Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Wetland Hydrology Present? Yes No X Depth (inches): (includes capillary fringe) No X Depth (inches): Wetland Hydrology Present? Yes No_ No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No Mo									
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) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) X Crayfish Burrows (C8) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation (Nisble on Aerial Imagery (C9) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Sturation (Visble on Aerial Imagery (C9) Algal Ma or Crust (B4) Recent from Reduction in Tilled Solis (C6) X Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Wetland Hydrology Present? Yes No X Depth (inches): (includes capillary fringe) No X Depth (inches): Wetland Hydrology Present? Yes No_ No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes No Mo									
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) Drainage Patterns (B10) Saturation (A3) True Aquatic Flants (B14) Drainage Patterns (B10) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Solis (C6) X Iron Deposits (B5) Thin Muck Surface (C7) Saturation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Other (Explain in Remarks) Wetland Hydrology Present? Yes_X No_ Sutration Visible Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: Wetland Hydrology Present? Yes_X No_ Describe Recorded Data (Stream gauge, monitoring well, aerial photos, previous inspections), if available: WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS table Wetland Hydrology Present? Yes_X No_	HIDROLOGI								
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) Agal Mat or Crust (B4) Recent Iron Reduction in Tilled Solis (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) Field Observations: No Surface Present? Yes No X Depth (inches): Water Alse (Stream gauge, monitoring well, aerial photos, previous inspections), if available: WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS table	Wetland Hydrology	y Indicators:						Seconda	
High Water Table (A2) Aquatic Fauna (B13) Dry-Season Water Table (C2) Saturation (A3) True Aquatic Plants (B14) X Crayfish Burrows (C8) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Oxid/zed Rhizospheres on Living Roots (C3) Stunted or Stressed Plants (D1) Drift Deposits (B3) Presence of Reduced Iron (C4) X Geomorphic Position (D2) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X FAC-Neutral Test (D5) Iron Deposits (B5) Thin Muck Surface (C7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Surface Water Table Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No <t< td=""><td>Primary Indicators (r</td><td>minimum of one is required; che</td><td>ck all that app</td><td>y)</td><td></td><td></td><td></td><td></td><td>Surface Soil Cracks (B6)</td></t<>	Primary Indicators (r	minimum of one is required; che	ck all that app	y)					Surface Soil Cracks (B6)
Saturation (A3) True Aquatic Plants (B14) X Crayfish Burrows (C8) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Stunted or Stressed Plants (D1) Drift Deposits (B3) Presence of Reduced Iron (C4) X Geomorphic Position (D2) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X FAC-Neutral Test (D5) Iron Deposits (B5) Thin Muck Surface (C7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): No Describe Recorded Data (stream gauge, monitori	Surface Water	(A1)	v	ater-Stained Leav	/es (B9)				Drainage Patterns (B10)
Saturation (A3) True Aquatic Plants (B14) X Crayfish Burrows (C8) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Stunted or Stressed Plants (D1) Drift Deposits (B3) Presence of Reduced Iron (C4) X Geomorphic Position (D2) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X FAC-Neutral Test (D5) Iron Deposits (B5) Thin Muck Surface (C7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): No Describe Recorded Data (stream gauge, monitori	High Water Tat	ble (A2)	A	quatic Fauna (B13	3)				Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Stunted or Stressed Plants (D1) Drift Deposits (B3) Presence of Reduced Iron (C4) X Geomorphic Position (D2) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Solis (C6) X FAC-Neutral Test (D5) Iron Deposits (B5) Thin Muck Surface (C7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS table WETS table								X	
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Stunted or Stressed Plants (D1) Drift Deposits (B3) Presence of Reduced Iron (C4) X Geomorphic Position (D2) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X FAC-Neutral Test (D5) Iron Deposits (B5) Thin Muck Surface (C7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS table					. ,				
Drift Deposits (B3) Presence of Reduced Iron (C4) X Geomorphic Position (D2) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X FAC-Neutral Test (D5) Iron Deposits (B5) Thin Muck Surface (C7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS table						Roots (C3)			
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X FAC-Neutral Test (D5) 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) Field Observations: Surface Water Present? Yes Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Gincludes capillary fringe) Depth (inches): Wetland Hydrology Present? Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS table					-			X	
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) Field Observations: Surface Water Present? Yes Surface Water Present? Yes No X Depth (inches):		,				oils (C6)			
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes Surface Water Present? Yes No X Water Table Present? Yes No X Saturation Present? Yes No X Depth (inches):						(
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes X No X Depth (inches): Water Table Present? Yes X No X Depth (inches): Water Table Present? Yes X No X Depth (inches): Water Table Present? Yes X No X Depth (inches): Water Table Present? Yes X No X Depth (inches): Water Table Present? Yes X No X Depth (inches): Water Table Present? Yes X No X Depth (inches): Water Table Present? Yes X No									
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): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Cincludes 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, aerials, AHPS Precipitation data, Milwaukee County WETS table		••••		-					
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Suitraction Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Solution Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) No X Depth (inches): Wotland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS table	oparoory veget		~		cinano)				
Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Suitraction Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Solution Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): (includes capillary fringe) No X Depth (inches): Wotland Hydrology Present? Yes X No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS table	Field Observation								
Water Table Present? Yes No X Depth (inches):									
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes X No (includes capillary fringe) Depth (inches):									
(includes capillary fringe)								Wetter	d Understander Die som Konstander
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS table				Depth (inches):				wetland	u nyurology Present? Yes X No
WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS table							•		
Remarks: Depressional area with seasonal wetland hydrology, but secondary hydrological indicators are present.	WWI Map, NRCS S	ions Map, aerials, AHPS Precip	otation data,	Milwaukee Coun	ty WETS table	Ð			
Remarks: Depressional area with seasonal wetland hydrology, but secondary hydrological indicators are present.									
Hemarks: Depressional area with seasonal wetland hydrology, but secondary hydrological indicators are present.	— / —					:			
	Remarks: Dep	ressional area with seasonal w	vetland hydro	ology, but second	dary hydrolog	ical indicato	rs are prese	ent.	

Project/Site: Southbrook Church		City/County: Franklin, Milwaukee Sampling Date: July 24, 2012						
Applicant/Owner: Southbrook Ch	urch	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%		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 th		Yes No *X (if no, explain in Remarks)						
Are Vegetation **Yes Soil Are Vegetation No Soil	No significantly disturbed? Yes or Hydrology No naturally problematic?	Are "Normal Circumstances" present? Yes X No (if needed, explain any answers in Remarks)						
SUMMARY OF FINDINGS A	Attach site map showing sampling point loc	ations, transects, important features, etc.						
Hydrophytic Vegetation Present?	Yes <u>No X</u>	Is the Sampled Area						
Hydric Soil Present?	Yes X No	within a Wetland? Yes NoX						
Wetland Hydrology Present?	Yes No <u>X</u>	If yes, optional wetland site ID: n/a						
Remarks: *4-6 inches below average precipitation - drought conditions **Mowed grass **Soil contains hydric characteristics and are problematic (Mollisol), but veg./ landscape position are indicative of uplands.								
VEGETATION - Use scientific r	names for plants.	Sampling Point:						
	Absolute % Dominant Indicator	Dominance Test Worksheet:						
Tree Stratum (Plot size: n/a) Cover Species Status	Number of Dominant Species						
1 2	·	That Are OBL, FACW, or FAC: <u>1</u> (A)						
3	·	Total Number of Dominant						
4 5.		Species Across All Strata: <u>2</u> (B)						
5 6		Percent of Dominant Species						
7	0 = Total Cover	That Are OBL, FACW, or FAC:(A/B)						
		Prevalence Index Worksheet:						
		Total % Cover of: Multiply by:						
Sapling/Shrub Stratum (Plot size:	<u>n/a)</u>	OBL species 0 x 1 = 0 FACW species 0 x 2 = 0						
1.		FAC species $105 \times 3 = 315$						
2		FACU species 50 x 4 = 200						
3	· · · · · · · · · · · · · · · · · · ·	UPL species $0 \times 5 = 0$						
4 5.		Column Totals: (A) (B)						
6	· · · · · · · · · · · · · · · · · · ·	Prevalence Index B/A = 3.3						
7	0 = Total Cover	Hydrophytic Vegetation Indicators:						
		Rapid Test for Hydrophytic Vegetation						
		Dominance Test is >50%						
		Prevalence Index is ≤ 3.0 ¹						
Herb Stratum (Plot size: 5'R 1. Poa pratensis) 100 Y FAC	Morphological Adaptations ¹ (Provide supporting data in Remarks or on separate sheet)						
2. Trifolium repens	40 Y FACU	Problematic Hydrophytic Vegetation ¹ (Explain)						
3. Taraxacum officinale	10 N FACU	· · · · · · · · · · · · · · · ·						
4. Plantago major	5 N FAC	1						
5 6.	· · · · ·	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.						
7.		be present, unless disturbed of problematic.						
8								
9								
10								
11 12								
13								
14								
	155 = Total Cover							
Woody Vine Stratum (Plot size: n/a)							
1								
2 3.	· ·	Hydrophytic						
3 4		Vegetation						
	0 = Total Cover	Present? Yes <u>No *X</u>						
Remarks: (Include photo numbers here of	or on a separate sheet.)							
· ·	is not met. This data point does not pass PI or exhibit I	morphological adaptations.						

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

Depth	Matrix			Redox Featur		0			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-10	10YR 3/2	100					silty clay		
10-14	10YR 3/2	95	10YR 5/8	5	C	M	silty clay		
14-20	10YR 5/1	95	10YR 5/8	5	C	<u>M</u>	silty clay		
			·				<u> </u>		
¹ Type: C=Concentra	ation, D=Depletion, RM=Reduc	ced Matrix, C	S=Covered or Coate	ed Sand Grains	3.	² Lo	cation: PL=Pore Lining, N	1=Matrix	
Hydric Soil Indicators:							Indicators for Pro	blematic Hydric Soils ³ :	
Histosol (A1)			Sandy Gleyed Matri	x (S4)			Coast Pra	irie Redox (A16) (LRR,K,L,R)	
Histic Epipedon	. ,		Sandy Redox (S5)					ace (S7) (LRR,K,L)	
Black Histic (A3			Stripped Matrix (S6)					ky peat or peat (S3) (LRR,K,L)	
Hydrogen Sulfic			Loamy Mucky Mine					anese Masses (F12) (LRR,K,L,R)	
Stratified Layer			Loamy Gleyed Matr					low Dark Surface (TF12)	
2 cm Much (A1	v Dark Surface (A11)		Depleted Matrix (F3 Redox Dark Surfac					plain in Remarks)	
Thick Dark Surf	. ,		Depleted Dark Surfa	. ,					
Sandy Mucky M			Redox Depressions	. ,					
							³ Indicators of hydro	ophytic vegetation and wetland	
							hydrology must be problematic.	present, unless disturbed or	
Restrictive Layer (it	f abaawad).								
Type: none	,								
Depth (inches):						Нус	dric Soil Present?	Yes No_X	
Remarks: Soils	s are borderline hydric but n	ot quite met	. Vegetation and la	indscape posi	tion are ind	cative of up	lands.		
HYDROLOGY									
Wetland Hydrology	/ Indicators:						Secondary	y Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)						Surface Soil Cracks (B6)			

Wettand Hydrology mateators.		Secondary indicators (initiation of two required)				
Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)						
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)	Dry-Season Water Table (C2)				
Saturation (A3)	True Aquatic Plants (B14)	Crayfish Burrows (C8)				
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)				
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Stunted or Stressed Plants (D1)				
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Geomorphic Position (D2)				
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)				
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)					
Water Table Present? Yes No		Wetland Hydrology Present? Yes No X				
Remarks: No wetland hydrology indicators pre	sent.					
1						

Project/Site: Southbrook Church		City/Cou	unty: Franklin, Milwaukee Sampling Date: July 24, 2012
Applicant/Owner: Southbrook Chu	rch		State: WI Sampling Point: T-6 DP-12 (wtd)
Investigator(s): Heather Patti & T	ïna Myers		Section, Township, Range: NE 1/4 Sec 18, T5N, R21E
Landform (hillslope, terrace, etc.):	epression	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 significant	•	Are "Normal Circumstances" present? Yes X No
Are Vegetation No Soil	**Yes or Hydrology **Yes naturally p	problematic?	(if needed, explain any answers in Remarks)
SUMMARY OF FINDINGS At	tach site map showing samplin	g point locations, tran	isects, important features, etc.
Hydrophytic Vegetation Present?	Yes X No		Is the Sampled Area
Hydric Soil Present?			within a Wetland? Yes X No
Wetland Hydrology Present?	Yes X No		If yes, optional wetland site ID: W-3
Remarks: *4-6 inches below average	ge precipitation - drought conditions		
**Problem soil - Mollisol	** This is a depressional wetland with s	easonal wetland hydrology.	
VEGETATION - Use scientific na	Absolute % Dominant	Indiantar	Sampling Point: T-6 DP-12 (wtd)
Tree Stratum (Plot size: 30'R)	<u>Cover</u> <u>Species</u>	Indicator Status	Dominance Test Worksheet:
			Number of Dominant Species
1. Populus tremuloides 2.		FAC	That Are OBL, FACW, or FAC:(A)
3.			Total Number of Dominant
4			Species Across All Strata:(B)
5			
6 7			Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
/	30 = Total Cover		
			Prevalence Index Worksheet:
			Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:	<u>15'R)</u>		OBL species x 1 = FACW species x 2 =
1. Populus tremuloides		FAC	FAC species x 3 =
2.			FACU species x 4 =
3			UPL species x 5 =
4 5.			Column Totals: (A) (B)
5 6			Prevalence Index B/A =
7.			
	10 = Total Cover		Hydrophytic Vegetation Indicators:
			X Dominance Test is >50%
			Prevalence Index is $\leq 3.0^{1}$
Herb Stratum (Plot size: 5'R)		Morphological Adaptations ¹ (Provide supporting
1. Carex stricta 2. Phalaris arundinacea		OBL FACW	data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
3.	<u> </u>	FACW	
4.			
5			¹ Indicators of hydric soil and wetland hydrology must
6 7			be present, unless disturbed or problematic.
8.			
9.			
10			
11	<u> </u>		
12 13.			
14			
	= Total Cover		
Woody Vine Stratum (Plot size: n/a)		
1			
2.			
3			Hydrophytic Versteller
4	0 = Total Cover		Vegetation Present? Yes X No
			····
Remarks: (Include photo numbers here or	un a separate sneet.)		

The hydrophytic vegetation criterion is met. This is within a fresh wet/sedge meadow community.

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

Profile Description:	(Describe to the depth need	ed to docur	nent the indicato	r or confirm t	he absence o	f indicat	ors.)			
Depth	Matrix			Redox Feat	4				_	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	-	Texture	Remai	rks
0-15	10YR 2/1	90	10YR 5/6 &	5	<u> </u>	<u>M</u>	-	silty clay		
15.00			10YR 3/4	5	<u> </u>	<u>M</u>	-	silty clay		
15-20	10YR 5/1	90	10YR 5/8	10	С	M	-	silty clay		
·							-	·		
·							-	·		
·							-	·		
							-	·		
							-			
							-			
······································							-	. <u> </u>		
							-			
							-			
¹ Type: C–Concentration	on, D=Depletion, RM=Reduce	d Matrix_CS	-Covered or Coat	ed Sand Grain	s		² Locat	tion: PL=Pore Lining	n M–Matrix	
	· · · ·				0.		Loout			1
Hydric Soil Indicator	S:								Problematic Hydric Soils ³	
Histosol (A1) Histic Epipedon ((12)		Sandy Gleyed Mat Sandy Redox (S5)						Prairie Redox (A16) (LRR,I urface (S7) (LRR,K,L)	К,Ц,К)
Black Histic (A3)	RZ)		Stripped Matrix (S6						unace (37) (LRR,R,L) nucky peat or peat (S3) (LR	BKL)
Hydrogen Sulfide	e (A4)		_oamy Mucky Min						anganese Masses (F12) (L	
Stratified Layers	(A5)		oamy Gleyed Mat						hallow Dark Surface (TF12)
2 cm Much (A10)			Depleted Matrix (F					Other (Explain in Remarks)	
	Dark Surface (A11)		Redox Dark Surfa							
X Thick Dark Surface Sandy Mucky Mir			Depleted Dark Sur Redox Depression	. ,						
		·		0 (1 0)						
								³ Indicators of hy	drophytic vegetation and v	vetland
								hydrology must	be present, unless disturbe	ed or
								problematic.		
Restrictive Layer (if o	observed):									
Type: none								0.00	N N	Na
Depth (inches):	<u>n/a</u>						пуала	c Soil Present?	Yes <u>X</u>	No
Remarks: The hy	ydric soil criterion is met. Th	nis is a prob	lem soil - molliso	ol.	1					
HYDROLOGY										
Wetland Hydrology I								Second	dary Indicators (minimum o	
	inimum of one is required; cheo	ck all that ap	ply)						Surface Soil Cracks (B6))
Surface Water (A			Water-Stained Lea	. ,					Drainage Patterns (B10)	
High Water Table	e (A2)		Aquatic Fauna (B1						Dry-Season Water Table	e (C2)
Saturation (A3) Water Marks (B1)		Frue Aquatic Plant Hydrogen Sulfide (. ,					Crayfish Burrows (C8) Saturation Visible on Aer	ial Imagony (CQ)
Sediment Deposi			Dxidized Rhizosph		Roots (C3)				Stunted or Stressed Plar	
Drift Deposits (B3			Presence of Reduc	•	()			x	Geomorphic Position (D	. ,
Algal Mat or Crus	st (B4)	F	Recent Iron Reduc	tion in Tilled S	oils (C6)			Х	FAC-Neutral Test (D5)	
Iron Deposits (B5	,		Thin Muck Surface							
	e on Aerial Imagery (B7)		Gauge or Well Dat							
Sparsely vegetat	ed Concave Surface (B8)		Other (Explain in F	temarks)						
Field Observations:						1				
Surface Water Presen	t? Yes	No X	Depth (inches):							
Water Table Present?		No X	Depth (inches):		-					
Saturation Present?	Yes	No X	Depth (inches):		-			Wetlar	nd Hydrology Present?	Yes <u>X</u> No
(includes capillary fring	ge)					1				
	ata (stream gauge, monitoring			-						
WWI Map, NRCS Soi	Is Map, aerials, AHPS Precip	itation data	, Milwaukee Cou	nty WETS tab	le					
Remarks: This is	s a depressional wetland with	h seasonal i	wetland bydrolog		arv hydrolog	lical ind	icatoro	are present		
		- seasonal		,, our second	aary riyururug	noar mu	541015	are present.		
1										
1										
L										

Project/Site: Southbrook	Church				City/County: Franklin, Milwaukee Sampling Date: July 24, 2012
Applicant/Owner: South	nbrook Church				State: WI Sampling Point: T-7 DP-13 (upl)
Investigator(s): Heath	ner Patti & Tina I	Nyers			Section, Township, Range: NE 1/4 Sec 18, T5N, R21E
Landform (hillslope, terrace, e	etc.): hillslo	pe			Local relief (concave, convex, none): convex
Slope (%): ~5%	Lat:	See Figure 2		Long:	See Figure 2 Datum: See Figure 2
Soil Map Unit Name:		Hough	ton muck (Ht),	0-2% slopes	WWI Classification: none
Are climatic / hydrologic condi	itions on the site	typical for this time	e of year?		Yes No *X (if no, explain in Remarks)
Are Vegetation **Ye	s Soil <u>No</u>	or Hydrology	<u>No</u> significa	antly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation No	Soil No	or Hydrology	<u>No</u> naturall	y problematic?	(if needed, explain any answers in Remarks)
		h aita man ah	owing com	ling noint	anational transactal important factures ato
	IGS Allac	ii site map si	iowing samp	ning point	ocations, transects, important features, etc.
Hydrophytic Vegetation Prese	ent?	Yes X	-		Is the Sampled Area
Hydric Soil Present?		Yes	-		vithin a Wetland? Yes No X
Wetland Hydrology Present?		Yes	No	X	If yes, optional wetland site ID: n/a
Remarks: *4-6 inches b **Mowed law		recipitation - dro	ught conditions	5	
VEGETATION - Use so	cientific name	s for plants.			Sampling Point: T-7 DP-13 (upl)
Tree Stratum (Plot size: 30'F)	Absolute %	Dominant	Indicator	Dominance Test Worksheet:
	•)	Cover	Species	Status	- Number of Dominant Species
1. Fraxinus pennsylvanic	a	10	Y	FACW	That Are OBL, FACW, or FAC: <u>2</u> (A)
2.					-
3					Total Number of Dominant
4 5.					Species Across All Strata: <u>3</u> (B)
6.				-	- Percent of Dominant Species
7.					That Are OBL, FACW, or FAC: 67% (A/B)
		=	Total Cover		Dervelance Index Washeboot
					Prevalence Index Worksheet: Total % Cover of: Multiply by:
					OBL species $0 \times 1 = 0$
Sapling/Shrub Stratum (Plot s	ize: <u>N/A</u>)	<u>L</u>			FACW species 10 x 2 = 20
1					FAC species 75 x 3 = 225
2		·			FACU species 70 x 4 = 280 UPL species 0 x 5 = 0
4					Column Totals: 155 (A) 525 (B)
5.				-	
6.					Prevalence Index B/A = 3.4
7		=	Total Cover		Uudvankutia Vagatatian Indiastava.
		=	Total Cover		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
					X Dominance Test is >50%
					Prevalence Index is $\leq 3.0^1$
	'R)	<u>)</u>			Morphological Adaptations ¹ (Provide supporting
1. Poa pratensis 2. Taraxacum officinale		<u>60</u> 40	<u> </u>	FAC FACU	data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
3. Trifolium repens		25	<u> </u>	FACU	
4. Plantago major		15	Ν	FAC	
5. Glechoma hederacea		5	<u>N</u>	FACU	¹ Indicators of hydric soil and wetland hydrology must
6 7.					be present, unless disturbed or problematic.
7 8					-
9				·	
10					_
11		·			-
12 13					-
14.					
		145 =	Total Cover		
Woody Vine Stratum (Plot size	e: n/a)	<u>)</u>			
					_
1					-
2					Hydrophytic
4.					Vegetation
		0	= Total Cover		Present? Yes X No
Remarks: (Include photo num	bers here or on a	separate sheet \			
		• /	nance of Poa p	ratensis. Poa	pratensis is more reflective of uplands in this
circumstance.					· ·

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

nches) Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8 10YR 3/2	100	<u> </u>			200	silty clay loam	
8-20 10YR 6/3	90	10YR 5/6	10	с	M	sandy loam	disturbed soil - sandy loam with
							gravel fragments
		·		-			graver ruginente
		·		-			
	·						
		·					
	·	·					
	·						
							· · · · · · · · · · · · · · · · · · ·
	<u> </u>						
ype: C=Concentration, D=Depletion, RM=Re	duced Matrix, C	S=Covered or Coated	Sand Grain	S.	² Lo	cation: PL=Pore Lining	M=Matrix
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4)		Sandy Gleyed Matrix (Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral	(F1)			Dark Su 5 cm m	rairie Redox (A16) (LRR,K,L,R) Irface (S7) (LRR,K,L) Joky peat or peat (S3) (LRR,K,L) Inganese Masses (F12) (LRR,K,L,R)
Stratified Layers (A5) 2 cm Much (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1)		Loamy Gleyed Matrix (Depleted Matrix (F3) Redox Dark Surface (Depleted Dark Surface Redox Depressions (F	(F6) e (F7)			Other (f	allow Dark Surface (TF12) Explain in Remarks)
Stratified Layers (A5) 2 cm Much (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12)		Depleted Matrix (F3) Redox Dark Surface (Depleted Dark Surface	(F6) e (F7)			Other (E	allow Dark Surface (TF12)
Stratified Layers (A5) 2 cm Much (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Mestrictive Layer (if observed):		Depleted Matrix (F3) Redox Dark Surface (Depleted Dark Surface	(F6) e (F7)			Other (E	allow Dark Surface (TF12) Explain in Remarks) drophytic vegetation and wetland
Stratified Layers (A5) 2 cm Much (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12)		Depleted Matrix (F3) Redox Dark Surface (Depleted Dark Surface	(F6) e (F7)			Other (E	allow Dark Surface (TF12) Explain in Remarks) drophytic vegetation and wetland
Stratified Layers (A5) 2 cm Much (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) estrictive Layer (if observed):		Depleted Matrix (F3) Redox Dark Surface (Depleted Dark Surface	(F6) e (F7)		н	Other (E	allow Dark Surface (TF12) Explain in Remarks) drophytic vegetation and wetland

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
High Water Table (A2) Aquality Saturation (A3) True Water Marks (B1) Hydi Sediment Deposits (B2) Oxic Drift Deposits (B3) Press Algal Mat or Crust (B4) Recc Iron Deposits (B5) Thin Inundation Visible on Aerial Imagery (B7) Gau	ter-Stained Leaves (B9) uatic Fauna (B13) ue Aquatic Plants (B14) drogen Sulfide Odor (C1) idized Rhizospheres on Living Roots (C3) seence of Reduced Iron (C4) cent Iron Reduction in Tilled Soils (C6) in Muck Surface (C7) uge or Well Data (D9) ner (Explain in Remarks)	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)
Water Table Present? Yes No X Do Saturation Present? Yes No X Do (includes capillary fringe) Do X Do Describe Recorded Data (stream gauge, monitoring well, aerial pho WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, M		Wetland Hydrology Present? Yes <u>No X</u>
Remarks: No wetland hydrology indicators present.		

Project/Site: Southbroo	ok Church			City/County: Franklin, Milwaukee Sampling Date: July 24, 2012
Applicant/Owner: So	uthbrook Church			State: WI Sampling Point: T-7 DP-14 (wtd)
Investigator(s): He	ather Patti & Tina M	lyers		Section, Township, Range: NE 1/4 Sec 18, T5N, R21E
Landform (hillslope, terrace	e, etc.): depres	sion		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 co	onditions on the site ty	ypical for this time of year?		Yes No *X (if no, explain in Remarks)
Are Vegetation	No Soil <u>No</u>	or Hydrology No signification	antly disturbed?	Are "Normal Circumstances" present? Yes X No
<u> </u>			ly problematic?	(if needed, explain any answers in Remarks)
			ling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Pre	esent?	Yes X No		Is the Sampled Area
Hydric Soil Present?		Yes X No		within a Wetland? Yes X No
Wetland Hydrology Presen	t?	Yes X No		If yes, optional wetland site ID: W-4
		ecipitation - drought conditions his is a depressional wetland with		land hydrology.
VEGETATION - Use	scientific names	s for plants.		Sampling Point: T-7 DP-14 (wtd)
		Absolute % Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum (Plot size: n	/a)	Cover Species	Status	
1 2				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
3.				Total Number of Dominant
4 5				Species Across All Strata:(B)
6.				Percent of Dominant Species
7		0 = Total Cover		That Are OBL, FACW, or FAC:(A/B)
				Prevalence Index Worksheet:
				Total % Cover of: Multiply by:
Conling/Chruh Stratum / Dia	nt size (n	`		OBL species x 1 = FACW species x 2 =
Sapling/Shrub Stratum (Plo 1				FACW species x 2 = FAC species x 3 =
2.				FACU species x 4 =
3.				UPL species x 5 =
4				Column Totals: (A) (B)
5				Bravalanaa laday, P/A
6 7				Prevalence Index B/A =
		0 = Total Cover		Hydrophytic Vegetation Indicators:
				X Rapid Test for Hydrophytic Vegetation
				X Dominance Test is >50%
Llash Stratum (Distaine)	E'D	,		Prevalence Index is ≤ 3.0 ¹
Herb Stratum (Plot size: 1. Phalaris arundinacea	<u>5'R</u>	<u>)</u> 100 Y	FACW	Morphological Adaptations ¹ (Provide supporting data in Remarks or on separate sheet)
2.	a		TACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3.				
4.				
5				¹ Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7 8.	<u> </u>	·		
8 9.	<u> </u>			
10.				
11.				
12				
13		·		
14		100 = Total Cover		
Woody Vine Stratum (Plot	size: n/a	<u>)</u>		
1.				
2.				
				Hydrophytic
4		0 = Total Cover		Vegetation Present? Yes X No
Remarks: (Include photo nu	umbers here or on a	separate sheet.)		

The hydrophytic vegetation criterion is met. This is a fresh (wet) meadow plant community.

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

Profile Description:	(Describe to the depth nee	ded to docur	ment the indicator	or confirm th	ne absence of	indicato	rs.)	
Depth	Matrix			Redox Featu	ires			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-18	10YR 2/1	100	10YR 5/8	2	С	PL	silty clay	oxyidized roots at 8"
18-22	10YR 5/1	90	10YR 5/8	10	<u>с</u>	М	silty clay	
					·		·	
							. <u> </u>	
							·	
					·		·	
							. <u> </u>	
¹ Type: C=Concentrati	ion, D=Depletion, RM=Reduc	ed Matrix, CS	=Covered or Coated	d Sand Grains	S.	2	Location: PL=Pore Linin	g, M=Matrix
Hydric Soil Indicator	rs:						Indicators for	Problematic Hydric Soils ³ :
Histosol (A1)			Sandy Gleyed Matri	v (S4)				Prairie Redox (A16) (LRR,K,L,R)
Histic Epipedon	(A2)		Sandy Redox (S5)	x (0+)				Surface (S7) (LRR,K,L)
Black Histic (A3)			Stripped Matrix (S6)					nucky peat or peat (S3) (LRR,K,L)
Hydrogen Sulfide			Loamy Mucky Miner					langanese Masses (F12) (LRR,K,L,R)
Stratified Layers			Loamy Gleyed Matri					Shallow Dark Surface (TF12)
2 cm Much (A10)		Depleted Matrix (F3)			Other	(Explain in Remarks)
Depleted Below	Dark Surface (A11)		Redox Dark Surface					
X Thick Dark Surfa	· · ·		Depleted Dark Surfa					
Sandy Mucky Mi	ineral (S1)	I	Redox Depressions	(F8)				
								hydrophytic vegetation and wetland
								t be present, unless disturbed or
							problematic.	
					1			
Restrictive Layer (if								
Type: none								
Depth (inches):	n/a					F	Hydric Soil Present?	Yes <u>X</u> No
Remarks: The h	ydric soil criterion is met.	Thie ie a proh						
nemana. men	lyune son enterion is met.	1113 13 4 9106						
HYDROLOGY								
Wetland Hydrology	Indicators:						Secor	dary Indicators (minimum of two required)
	inimum of one is required; ch	eck all that ap	ply)					Surface Soil Cracks (B6)
Surface Water (A			Water-Stained Leav	es (B9)				Drainage Patterns (B10)
High Water Table			Aquatic Fauna (B13)					Dry-Season Water Table (C2)
Saturation (A3)	- ()		True Aquatic Plants					Crayfish Burrows (C8)
Water Marks (B1	1)		Hydrogen Sulfide Od	· /				Saturation Visible on Aerial Imagery (C9)
Sediment Depos			Oxidized Rhizosphe		Roots (C3)			Stunted or Stressed Plants (D1)
Drift Deposits (B			Presence of Reduce	d Iron (C4)			X	Geomorphic Position (D2)
Algal Mat or Cru	st (B4)		Recent Iron Reducti	on in Tilled So	oils (C6)		X	FAC-Neutral Test (D5)
Iron Deposits (B	5)		Thin Muck Surface ((C7)				
Inundation Visible	e on Aerial Imagery (B7)		Gauge or Well Data	(D9)				
Sparsely Vegeta	ted Concave Surface (B8)	0	Other (Explain in Re	emarks)				
Field Observations:								
Surface Water Preser	nt? Yes	No X	Depth (inches):					
Water Table Present?		No X	Depth (inches):		-			
Saturation Present?	Yes	No X	Depth (inches):		-		Wetla	nd Hydrology Present? Yes X No
(includes capillary frin	nge)				-			
Describe Recorded D	ata (stream gauge, monitoring	g well, aerial p	hotos, previous insp	pections), if av	vailable:			
	ils Map, aerials, AHPS Preci							
Remarks: The w	vetland hydrology criterion	is met.						

Project/Site: South	brook Church					City/C	ounty: Franklin, Milwaukee	Sam	pling Date: July 24, 2012	2
Applicant/Owner:	Southbrook Ch	hurch					State:	wi	Sampling Point	: T-8 DP-15 (upl)
Investigator(s):	Heather Patti &	k Tina M	yers			_	Section, Township, Range	e: NE 1	1/4 Sec 18, T5N, R21E	
Landform (hillslope, te	rrace, etc.):	hillslop	e			Local relie	f (concave, convex, none):	con	vex	
Slope (%): 3-5%		Lat:	See Figure 2		Long:	See Figure 2			Datum: See Figure 2	2
Soil Map Unit Name:			Blount	t silt loam (BIA),	1-3% slopes		WWI	Classification	on: <u>n</u>	one
Are climatic / hydrolog	ic conditions on th			ie of year?		Yes	No <u>*X</u>	(if no	o, explain in Remarks)	
Are Vegetation	No Soil		or Hydrology		antly disturbed?		Are "Normal Circumstance	•		s <u>X</u> No
Are Vegetation	No Soil	NO	or Hydrology	<u>No</u> naturall	y problematic?		(if needed, explain any ans	wers in Ren	narks)	
SUMMARY OF F	INDINGS	Attach	site map sl	howing samp	ling point	locations, tr	ansects, important fe	eatures, e	etc.	
Hydrophytic Vegetation	n Present?		Yes	No	Х		Is the Sampled Area			
Hydric Soil Present?			Yes	No	Х	_	within a Wetland?		Yes	No <u>X</u>
Wetland Hydrology Pre	esent?		Yes	No	Х	_	If yes, optional wetland site	e ID:		
Remarks: *4-6 in	nches below ave	rage pre	cipitation - dro	ought conditions	3					
VEGETATION - U	Use scientific	names	•	Dominant	la d'				Sampling Point:	T-8 DP-15 (upl)
Tree Stratum (Plot size	e: 30'R)	Absolute % Cover	Dominant Species	Indicator Status		Dominance Test W	orksheet:		
						-	Number of Dominant	•		
1. Juglans nigra			80	Y	FACU	-	That Are OBL, FACV	V, or FAC:	1	_(A)
2 3.						-	Total Number of Dor	minant		
4.						_	Species Across All S		4	(B)
						_				_
6 7.				. <u></u>		-	Percent of Dominant That Are OBL, FACV		25%	(A/B)
1			80 =	Total Cover		-	That Are Obl., FACT	V, ULFAG.	23%	_(A/B)
		-					Prevalence Index V	Vorksheet:		
								Cover of:		ply by:
Sapling/Shrub Stratum	(Plot size:	<u>15'R)</u>					OBL species FACW species		x 1 = x 2 =	
1. Rhamnus cathai		<u>1911 /</u>	10	Y	FAC		FAC species		x 3 =	
2.						_	FACU species		x 4 =	
3						-	UPL species		x 5 =	
F				·		-	Column Totals:		(A)	(B)
6.				·		-	Prevalence	e Index B/A	=	
7.						_			_	
		-	10 =	Total Cover			Hydrophytic Veget		ators: r Hydrophytic Vegetation	
								ominance T		
									dex is $\leq 3.0^1$	
Herb Stratum (Plot size)							Adaptations ¹ (Provide s	
1. Festuca pratens			95	<u> </u>	FACU	_			arks or on separate shee	,
2. Aster sagittifoliu 3. Poa pratensis	us		40 20	<u> </u>	UPL FAC	-	Pi	robiematic r	Hydrophytic Vegetation ¹ (Explain)
4. Geum canadens	se .		10	N	FAC	-				
5. Hackelia virginia			5	Ν	FACU				tland hydrology must	
6. Erigeron annuus	S		5	N	FACU	_	be present, unless	disturbed or	problematic.	
7 8.				·		-				
9.						-				
10.						_				
						_				
12.				<u> </u>		-				
13 14.				·		-				
			175 =	Total Cover		-				
Woody Vine Stratum (Plot size: n/a)								
I . ———						-				
1 2						-				
3.						-	Hydrophytic			
4.							Vegetation			
		-	0	= Total Cover			Present?	Y	'es No	<u>x</u>
Remarks: (Include pho	oto numbers here	or on a s	eparate sheet.)							

epth	Matrix			Redox Featu	es				
iches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0-18	10YR 3/2	100	-				silty clay	disturbed soil - s	sandy loam with
18-20	2.5Y 7/2	100	<u> </u>				sandy loam	gravel fragments	S
ype: C=Concer	ntration, D=Depletion, RM=Rec	luced Matrix, C	S=Covered or Coat	ted Sand Grair	S.	² Lo	cation: PL=Pore Lini	ng, M=Matrix	
dric Soil Indic	ators:						Indicators for	Problematic Hydric	c Soils ³ :
Histosol (A1)			Sandy Gleyed Matr	ix (S4)				t Prairie Redox (A16)	
Histic Epiped			Sandy Redox (S5)					Surface (S7) (LRR,K	
	(A3)		Stripped Matrix (S6	i)			5 cm	mucky peat or peat (S	
Black Histic								//	
Hydrogen Su	llfide (A4)	<u> </u>	oamy Mucky Mine				Iron-I	Manganese Masses (I	
Hydrogen Su Stratified Lay	llfide (A4) vers (A5)		oamy Gleyed Matr	rix (F2)			Iron-I Very	Shallow Dark Surface	e (TF12)
Hydrogen Su Stratified Lay 2 cm Much (llfide (A4) vers (A5) A10)		oamy Gleyed Matr Depleted Matrix (F3	rix (F2) 3)			Iron-I Very		e (TF12)
Hydrogen Su Stratified Lay 2 cm Much (Depleted Bel	lifide (A4) vers (A5) A10) ow Dark Surface (A11)		oamy Gleyed Matr Depleted Matrix (F3 Redox Dark Surfac	rix (F2) 3) ce (F6)			Iron-I Very	Shallow Dark Surface	e (TF12)
Hydrogen Su Stratified Lay 2 cm Much (Depleted Bel Thick Dark S	lifide (A4) vers (A5) A10) ow Dark Surface (A11)		oamy Gleyed Matr Depleted Matrix (F3	rix (F2) 3) ce (F6) ace (F7)			Iron-I Very	Shallow Dark Surface	e (TF12)
Hydrogen Su Stratified Lay 2 cm Much (Depleted Bel Thick Dark S	lfide (A4) vers (A5) A10) ow Dark Surface (A11) surface (A12)		oamy Gleyed Matr Depleted Matrix (F3 Redox Dark Surfac Depleted Dark Surfa	rix (F2) 3) ce (F6) ace (F7)			Iron-I Very Other	Shallow Dark Surface (Explain in Remarks	e (TF12))
Hydrogen Su Stratified Lay 2 cm Much (Depleted Bel Thick Dark S	lfide (A4) vers (A5) A10) ow Dark Surface (A11) surface (A12)		oamy Gleyed Matr Depleted Matrix (F3 Redox Dark Surfac Depleted Dark Surfa	rix (F2) 3) ce (F6) ace (F7)			Iron-I Very Other	Shallow Dark Surface	∍ (TF12)) n and wetland
Hydrogen Su Stratified Lay 2 cm Much (Depleted Bel Thick Dark S Sandy Muck	iffide (A4) vers (A5) A10) ow Dark Surface (A11) surface (A12) y Mineral (S1)		oamy Gleyed Matr Depleted Matrix (F3 Redox Dark Surfac Depleted Dark Surfa	rix (F2) 3) ce (F6) ace (F7)			Iron-N Very Other ³ Indicators of hydrology mus	Shallow Dark Surface · (Explain in Remarks hydrophytic vegetatio	∍ (TF12)) n and wetland
Hydrogen Su Stratified Lay 2 cm Much (Depleted Bel Thick Dark S Sandy Mucks	lfide (A4) vers (A5) A10) ow Dark Surface (A11) surface (A12)		oamy Gleyed Matr Depleted Matrix (F3 Redox Dark Surfac Depleted Dark Surfa	rix (F2) 3) ce (F6) ace (F7)			Iron-N Very Other ³ Indicators of hydrology mus	Shallow Dark Surface · (Explain in Remarks hydrophytic vegetatio	∍ (TF12)) n and wetland

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check a	III that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	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)
Water Table Present? Yes No		Wetland Hydrology Present? Yes No X
Remarks: No wetland hydrology indicators pre	sent.	

Project/Site: South	brook Church				City/County: F	ranklin, Milwaukee		Sampling Date	July 24, 2012	2
Applicant/Owner:	Southbrook C	hurch				State:	WI		Sampling Point	: T-8 DP-16 (wtd)
Investigator(s):	Heather Patti &	& Tina Myers			Sectio	on, Township, Rang	ge:	NE 1/4 Sec 18	, T5N, R21E	
Landform (hillslope, te	errace, etc.):	depression			Local relief (concav	ve, convex, none):	-	concave		
Slope (%): 0%		Lat: See Figure 2		Long:	See Figure 2			Datum	See Figure 2	
Soil Map Unit Name:		Houg	hton muck (Ht), (0-2% slopes		WW	I Classif	fication:	E	2K
Are climatic / hydrolog	gic conditions on t	he site typical for this tim	e of year?		Yes	No *X		(if no, explain i	n Remarks)	
Are Vegetation	No Soil	No or Hydrology		antly disturbed?	Are "No	ormal Circumstance	es" pres	ent?	Yes	s <u>X</u> No
Are Vegetation	<u>No</u> Soil	**Yes or Hydrology		y problematic?		ded, explain any ans		,		
		Attach site map sl		ing point loc			atures	s, etc.		
Hydrophytic Vegetatio	on Present?	Yes X			Is the S	Sampled Area				
Hydric Soil Present?		Yes X			within a	a Wetland?		Yes	s <u>X</u>	No
Wetland Hydrology Pr	resent?	Yes X	No		If yes, c	optional wetland site	e ID:	W-4		
Remarks: *4-6 in	nches below ave	rage precipitation - dro	ought conditions							
**Prot	olem soil - Mollis	ol ** This is a depress	ional wetland witl	h seasonal wetla	nd hydrology.					
VEGETATION -	Use scientific	names for plants.	_		1			San	npling Point:	T-8 DP-16 (wtd)
Tree Stratum (Plot siz	:e: n/a	Absolute %) Cover	Dominant Species	Indicator Status	D	Dominance Test W	Vorkshe	et:		
1100 00000		/		Olalus	N	Number of Dominan	nt Specie	es		
1			·		Т	hat Are OBL, FAC	W, or FA	AC:	1	(A)
2										
4			·			Total Number of Do Species Across All S			1	(B)
_					3	species Across Air C	Silaid.			_(B)
					Р	Percent of Dominan	nt Specie	s		
7.					т	hat Are OBL, FAC	W, or FA	AC:	100%	(A/B)
		0	= Total Cover			<u> </u>				
					Р	Prevalence Index V			N.4 14 ²	- I I
						DBL species	6 Cover		x 1 =	ply by:
Sapling/Shrub Stratum	n (Plot size:	<u>n/a)</u>				ACW species	-			
1.	(<u></u>				AC species	-		x 3 =	
2.					F	ACU species	-		x 4 =	
3						JPL species	-		x 5 =	
-					C	Column Totals:	-		(A)	(B)
			·			Prevalenc	re Index	B/A -		
7.			·			Trevalene		Birt		
		0	= Total Cover		н	lydrophytic Veget	tation Ir	ndicators:		
					_			est for Hydroph	-	
					-			ce Test is >50%		
Herb Stratum (Plot siz	ze: 5'R)						ce Index is ≤ 3. ogical Adaptatic		supporting
1. Phalaris arundi			Y	FACW	-			Remarks or on		
2.								atic Hydrophytic		
3										
4					1					
5 6.						Indicators of hydric be present, unless				
7.			·			be present, unless		ed of problema		
8.		_	·							
9.										
			·							
12 13			·							
14.										
		100	= Total Cover							
Woody Vine Stratum (Plot size: n/a)								
1										
2 3.			·			lydrophytic				
3 4.			·			egetation				
		0	= Total Cover			Present?		Yes X	No	o
Demenius (I. I. I. I.	-t									
Remarks: (Include pho	oto numbers here	or on a separate sheet.)								

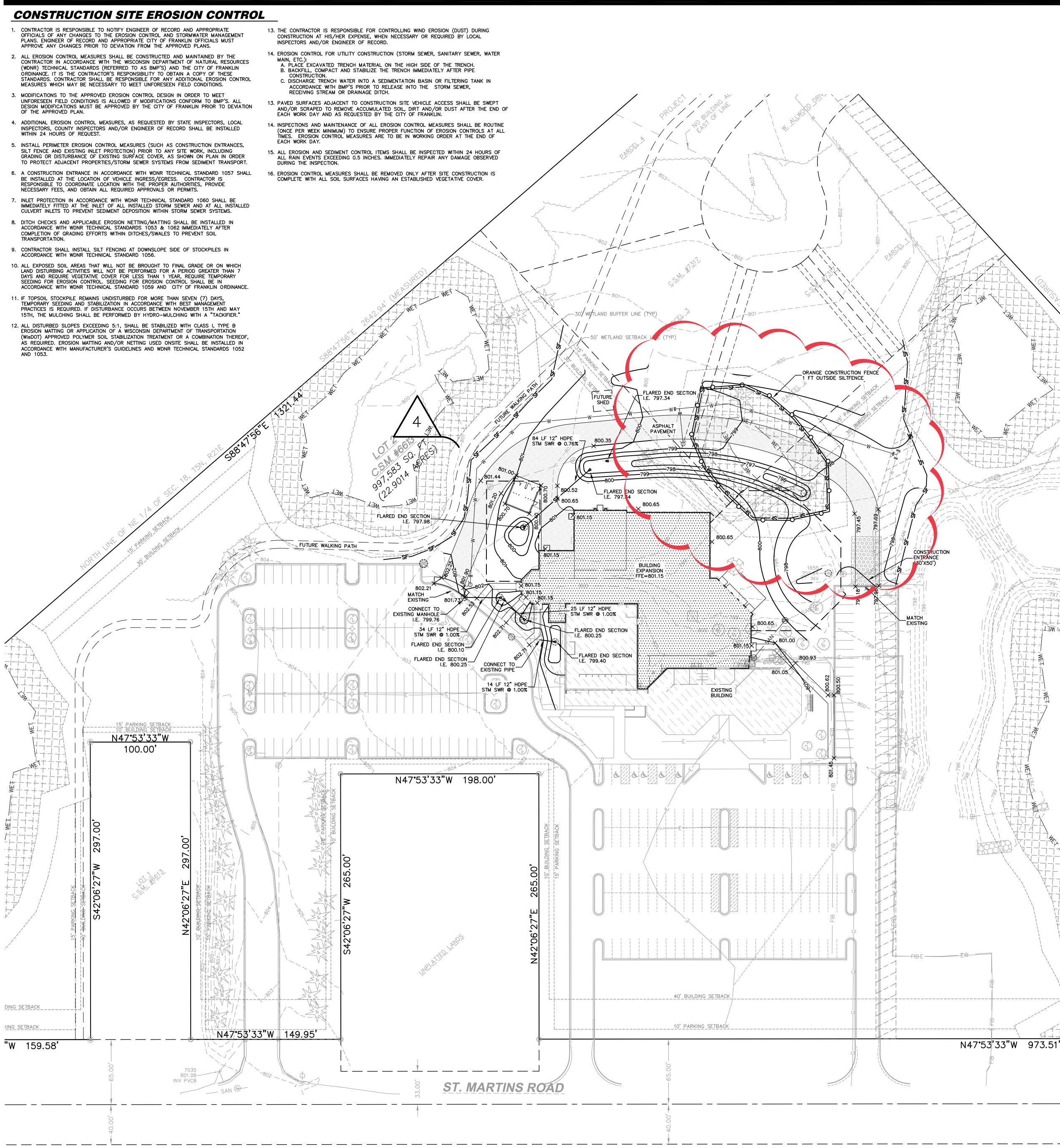
The hydrophytic vegetation criterion is met. This is a fresh (wet) meadow plant community - monotypic reed canay grass.

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

Depth <u>Matrix</u> (inches) Color (moist)					indicators.)	
(inches) (Color (moist)			edox Features	- 1	. 2		
	<u>%</u>	Color (moist)		Type'	Loc ²	Texture	Remarks
0-18 10YR 2/1	100	10YR 5/8	2	c	PL	silty clay	oxyidized roots at 3"
18-22 10YR 5/1	90	10YR 5/8	10	С	M	silty clay	
			· · · · · · · · · · · · · · · · · · ·		<u> </u>		
· ·							
			·				
		·					
					·		
¹ Type: C=Concentration, D=Depletion, RM=Reduced	ced Matrix, CS=	Covered or Coated S	and Grains.		² Lo	cation: PL=Pore Linin	g, M=Matrix
Hydric Soil Indicators:						Indicators for	Problematic Hydric Soils ³ :
Histosol (A1)	s	andy Gleyed Matrix (54)				Prairie Redox (A16) (LRR,K,L,R)
Histic Epipedon (A2)		andy Redox (S5)	- /				Surface (S7) (LRR,K,L)
Black Histic (A3)	s	tripped Matrix (S6)				5 cm r	nucky peat or peat (S3) (LRR,K,L)
Hydrogen Sulfide (A4)		pamy Mucky Mineral	. ,				anganese Masses (F12) (LRR,K,L,R)
Stratified Layers (A5)		pamy Gleyed Matrix (F2)				Shallow Dark Surface (TF12)
2 cm Much (A10)		epleted Matrix (F3)				Other	(Explain in Remarks)
Depleted Below Dark Surface (A11)		edox Dark Surface (,				
X Thick Dark Surface (A12) Sandy Mucky Mineral (S1)		epleted Dark Surface edox Depressions (F	. ,				
		edux Depressions (F	5)				
						³ Indicators of h	ydrophytic vegetation and wetland
							be present, unless disturbed or
						problematic.	
Restrictive Layer (if observed):							
Type: none							
Depth (inches): n/a					Hyo	dric Soil Present?	Yes X No
Remarks: The hydric soil criterion is met.	This is a probl	em soil - mollisol.					
HYDROLOGY							
Wetland Hydrology Indicators:							
						Secon	dary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; ch	neck all that app	ly)				Secon	dary Indicators (minimum of two required) Surface Soil Cracks (B6)
Primary Indicators (minimum of one is required; ch Surface Water (A1)		ly) /ater-Stained Leaves	(B9)		_	Secon	
	V		(B9)		_		Surface Soil Cracks (B6)
Surface Water (A1) High Water Table (A2) Saturation (A3)	VA T	/ater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B	14)		_	Secon	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	V A T H	/ater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor	14) (C1)		_	<u>Secon</u>	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	V A T H K	/ater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor ixidized Rhizospheres	14) (C1) s on Living Root	s (C3)	_		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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	V A T X C	Vater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor xidized Rhizospheres resence of Reduced I	14) (C1) on Living Root ron (C4)		_		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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	V A T T X C P F	Vater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor xidized Rhizospheres resence of Reduced I ecent Iron Reduction	14) (C1) on Living Root ron (C4) in Tilled Soils ((_		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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	V A T T X C P F T	Vater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor xidized Rhizospheres resence of Reduced I ecent Iron Reduction hin Muck Surface (C7	14) (C1) o on Living Root ron (C4) in Tilled Soils (()		_		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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	V A T T X C P F T G	Vater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor xidized Rhizospheres resence of Reduced I ecent Iron Reduction hin Muck Surface (C7 auge or Well Data (D	14) (C1) on Living Root ron (C4) in Tilled Soils (() 9)		_		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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	V A T T X C P F T G	Vater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor xidized Rhizospheres resence of Reduced I ecent Iron Reduction hin Muck Surface (C7	14) (C1) on Living Root ron (C4) in Tilled Soils (() 9)		_		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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	V A T T X C P F T G	Vater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor xidized Rhizospheres resence of Reduced I ecent Iron Reduction hin Muck Surface (C7 auge or Well Data (D	14) (C1) on Living Root ron (C4) in Tilled Soils (() 9)		-		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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations:	V A T T X C P F T G C	Vater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor ixidized Rhizospheres resence of Reduced I ecent Iron Reduction hin Muck Surface (C7 lauge or Well Data (D ther (Explain in Rema	14) (C1) on Living Root ron (C4) in Tilled Soils (() 9)		_		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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes	No X	Vater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor xidized Rhizospheres resence of Reduced I ecent Iron Reduction hin Muck Surface (C7 auge or Well Data (D ther (Explain in Rema Depth (inches):	14) (C1) on Living Root ron (C4) in Tilled Soils (() 9)		_		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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes		Vater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor ixidized Rhizospheres resence of Reduced I ecent Iron Reduction hin Muck Surface (C7 lauge or Well Data (D ther (Explain in Rema	14) (C1) on Living Root ron (C4) in Tilled Soils (() 9)		_		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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes	No X No X	Vater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor xidized Rhizospheres resence of Reduced I ecent Iron Reduction hin Muck Surface (C7 iauge or Well Data (D ther (Explain in Rema Depth (inches): Depth (inches):	14) (C1) on Living Root ron (C4) in Tilled Soils (() 9)		_		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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	No X No X No X	Vater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor xidized Rhizospheres resence of Reduced I ecent Iron Reduction hin Muck Surface (C7 auge or Well Data (D ther (Explain in Rema Depth (inches): Depth (inches):	14) (C1) on Living Root ron (C4) in Tilled Soils (() 9) arks)	C6)	_		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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes (includes capillary fringe) Yes	No X No X No X No X No X No X	Ater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor xidized Rhizospheres resence of Reduced I ecent Iron Reduction hin Muck Surface (C7 auge or Well Data (D ther (Explain in Rema Depth (inches): Depth (inches): Depth (inches): Depth (inches):	14) (C1) on Living Root ron (C4) in Tilled Soils (() 9) arks) tions), if availab	C6)	-		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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge, monitorir	No X No X No X No X No X No X	Ater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor xidized Rhizospheres resence of Reduced I ecent Iron Reduction hin Muck Surface (C7 auge or Well Data (D ther (Explain in Rema Depth (inches): Depth (inches): Depth (inches): Depth (inches):	14) (C1) on Living Root ron (C4) in Tilled Soils (() 9) arks) tions), if availab	C6)	-		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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge, monitorin WWI Map, NRCS Soils Map, aerials, AHPS Prece	No X No X No X No X No X No X ng well, aerial pl	Ater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor xidized Rhizospheres resence of Reduced I ecent Iron Reduction hin Muck Surface (C7 auge or Well Data (D ther (Explain in Rema Depth (inches): Depth (inches): Depth (inches): Depth (inches):	14) (C1) on Living Root ron (C4) in Tilled Soils (() 9) arks) tions), if availab	C6)			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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge, monitorir	No X No X No X No X No X No X ng well, aerial pl	Ater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor xidized Rhizospheres resence of Reduced I ecent Iron Reduction hin Muck Surface (C7 auge or Well Data (D ther (Explain in Rema Depth (inches): Depth (inches): Depth (inches): Depth (inches):	14) (C1) on Living Root ron (C4) in Tilled Soils (() 9) arks) tions), if availab	C6)	-		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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge, monitorin WWI Map, NRCS Soils Map, aerials, AHPS Prece	No X No X No X No X No X No X ng well, aerial pl	Ater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor xidized Rhizospheres resence of Reduced I ecent Iron Reduction hin Muck Surface (C7 auge or Well Data (D ther (Explain in Rema Depth (inches): Depth (inches): Depth (inches): Depth (inches):	14) (C1) on Living Root ron (C4) in Tilled Soils (() 9) arks) tions), if availab	C6)			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)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Describe Recorded Data (stream gauge, monitorin WWI Map, NRCS Soils Map, aerials, AHPS Prece	No X No X No X No X No X No X ng well, aerial pl	Ater-Stained Leaves quatic Fauna (B13) rue Aquatic Plants (B ydrogen Sulfide Odor xidized Rhizospheres resence of Reduced I ecent Iron Reduction hin Muck Surface (C7 auge or Well Data (D ther (Explain in Rema Depth (inches): Depth (inches): Depth (inches): Depth (inches):	14) (C1) on Living Root ron (C4) in Tilled Soils (() 9) arks) tions), if availab	C6)	-		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)

- PLANS. ENGINEER OF RECORD AND APPROPRIATE CITY OF FRANKLIN OFFICIALS MUST APPROVE ANY CHANGES PRIOR TO DEVIATION FROM THE APPROVED PLANS.
- CONTRACTOR IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARDS (REFERRED TO AS BMP'S) AND THE CITY OF FRANKLIN ORDINANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF THESE STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL EROSION CONTROL
- UNFORESEEN FIELD CONDITIONS IS ALLOWED IF MODIFICATIONS CONFORM TO BMP'S. ALL OF THE APPROVED PLAN.
- SILT FENCE AND EXISTING INLET PROTECTION) PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE COVER, AS SHOWN ON PLAN IN ORDER TO PROTECT ADJACENT PROPERTIES/STORM SEWER SYSTEMS FROM SEDIMENT TRANSPORT.
- NECESSARY FEES, AND OBTAIN ALL REQUIRED APPROVALS OR PERMITS.
- CULVERT INLETS TO PREVENT SEDIMENT DEPOSITION WITHIN STORM SEWER SYSTEMS.
- ACCORDANCE WITH WDNR TECHNICAL STANDARDS 1053 & 1062 IMMEDIATELY AFTER COMPLETION OF GRADING EFFORTS WITHIN DITCHES/SWALES TO PREVENT SOIL TRANSPORTATION.
- ACCORDANCE WITH WDNR TECHNICAL STANDARD 1056.
- LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 7 DAYS AND REQUIRE VEGETATIVE COVER FOR LESS THAN 1 YEAR, REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN
- PRACTICES IS REQUIRED. IF DISTURBANCE OCCURS BETWEEN NOVEMBER 15TH AND MAY 15TH, THE MULCHING SHALL BE PERFORMED BY HYDRO-MULCHING WITH A "TACKIFIER."
- EROSION MATTING OR APPLICATION OF A WISCONSIN DEPARTMENT OF TRANSPORTATION AS REQUIRED. EROSION MATTING AND/OR NETTING USED ONSITE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND WDNR TECHNICAL STANDARDS 1052 AND 1053.

- INSPECTORS AND/OR ENGINEER OF RECORD.
- MAIN. ETC.): CONSTRUCTION.
- RECEIVING STREAM OR DRAINAGE DITCH.
- EACH WORK DAY AND AS REQUESTED BY THE CITY OF FRANKLIN.
- EACH WORK DAY.
- DURING THE INSPECTION.



GRADING NOTES

- 1. THE CONTRACTOR SHALL FIELD VERIFY THE FOLLOWING:
- A. ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. B. LOCATION AND ELEVATION OF:
- EXISTING PIPE INVERTS FLOOR ELEVATIONS

+ + -

날 수 수 그 .

~ + + 4

-++.

 $\vdash \vdash \vdash \vdash \vdash$

* LLLLL

 $\succ \dashv \dashv \dashv \dashv \dashv$

WET _____

— WFT —

CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY

NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.

- 2. ALL UNSURFACED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL AND BE SEEDED, MULCHED AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- 3. THIS GRADING PLAN IS BASED ON AN TOPOGRAPHIC SURVEY BY JSD PROFESSIONAL SERVICES. SOME FIELD ADJUSTMENTS MAY BE NECESSARY AT POINTS WHERE PROPOSED GRADES MEET EXISTING. REVIEW ANY REQUIRED CHANGES WITH THE ENGINEER PRIOR TO CONSTRUCTION OF WORK.
- 4. PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED. MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 5. PROPOSED CONTOURS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. ALL CONSTRUCTION SHALL BE BASED UPON PROPOSED SPOT ELEVATIONS WHERE PROVIDED. 6. STORM SEWER SPECIFICATIONS
- A. PIPE ALL PIPE MATERIAL BENEATH STREET PAVEMENT SHALL BE REINFORCED CONCRETE PIPE. STORM SEWER OUTSIDE OF RIGHT-OF-WAY SHALL BE HIGH DENSITY POLYETHYLENE. REFER TO FOLLOWING SPECIFICATIONS:
 - REINFORCED CONCRETE PIPE (RCP) SHALL MEET THE REQUIREMENTS OF ASTM C-76, CLASS III (MINIMUM) WITH RUBBER GASKET JOINTS ASTM C-443. HIGH DENSITY POLYETHYLENE SMOOTH-WALLED INTERIOR CORRUGATED PIPE SHALL BE AS
- MANUFACTURED BY ADS OR EQUAL, WITH WATER TIGHT JOINTS, MANNING "N" VALUE OF 0.010 AND SHALL MEET THE REQUIREMENTS OF AASHTO DESIGNATION M-294 TYPE S. MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D3350, D2412, AND D2321 WITH ELASTOMERIC GASKETS CONFORMING TO ASTM F477. B. INLETS AND FRAMES
- INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF WISCONSIN ADMINISTRATIVE CODE SPS 382.36(9)B.3.
- FRAMES AND GRATES SHALL BE GRAY IRON MATERIAL (PER ASTM A-48) OF STYLES / CATALOG NUMBERS AS INDICATED ON THESE CONSTRUCTION DRAWINGS. C. MANHOLES AND FRAMES
- MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF WISCONSIN ADMINISTRATIVE CODE SPS 382.35(8)a,b. ii. FRAMES AND LIDS SHALL BE GRAY IRON MATERIAL (PER ASTM A-48) OF
- STYLES/CATALOG NUMBERS AS INDICATED ON THESE CONSTRUCTION DRAWINGS. INTERNAL CHIMNEY SEALS SHALL BE CRETEX SPECIALTY PRODUCTS, OR EQUAL.
- D. CLEANOUTS CLEANOUTS SHALL BE EQUIPPED WITH FROST SLEEVES IN ACCORDANCE WITH SPS 382.35(5)(A)2. (REFER TO DETAIL)
- E. BACKFILL AND BEDDING STORM SEWER SHALL BE CONSTRUCTED WITH GRAVEL BACKFILL AND CLASS B BEDDING IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL AND CLASS B BEDDING. LANDSCAPED AREAS MAY BE CLASS C BEDDING WITH COMPACTED SPOIL BACKFILL CONFORMING TO SECTION 643.5 OF THE "STANDARD SPECIFICATIONS."
- F. RIP-RAP AT ALL INLETS AND OUTLET FLARED END SECTIONS A 3' X 5' AREA OF MEDIUM RIP-RAP OVER TYPE R FABRIC PER WISDOT SPECIFICATION, SHALL BE INSTALLED. G. FIELD TILE CONNECTION - ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE
- INCLUDED IN THE UNIT PRICE(S) FOR STORM SEWER. TILE LINES CROSSED BY THE TRENCH SHALL BE REPLACED WITH THE SAME MATERIAL AS THE STORM SEWER AND SHALL BE INSPECTED BY THE CITY OF FRANKLIN PRIOR TO BACKFILLING.
- H. FIELD STONE PAD (2'X3' ON TYPE R FILTER FABRIC) SHALL BE INSTALLED AT ALL DOWNSPOUTS.

CONSTRUCTION STAGING PLAN

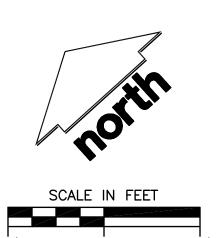
SOUTHBROOK CHURCH FRANKLIN, WISCONSIN

STAGED OPERATIONS

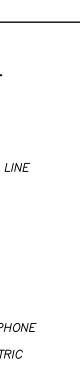
- 1. INSTALL TRACKING PAD AT ENTRANCE TO SITE.
- 2. INSTALL SILT FENCE AS SHOWN ON THE APPROVED CONSTRUCTION PLANS 3. GRADE SITE AS SHOWN ON THE APPROVED CONSTRUCTION PLANS COMPLETE WITH DITCH SYSTEMS AND STORM CULVERTS TO CONVEY STORMWATER PER DESIGN.
- 4. INSTALL PERMANENT RIP RAP TREATMENT AT THE DISCHARGE PIPES. SEED AND WATER DISTURBED AREAS UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED. PLACE EROSION CONTROL MATTING AS SHOWN ON THE PLANS. DISTURBED AREAS LEFT INACTIVE FOR SEVEN (7) DAYS SHALL BE STABILIZED TO MINIMIZE EROSION.
- THE CONTRACTOR SHALL TOPSOIL AND SEED DISTURBED PORTIONS OF THE SITE AS THEY ARE COMPLETED AS IS PRACTICAL.
- ALL OF THE EROSION CONTROL MEASURES FOR THE ENTIRE SITE MUST BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE PROJECT IN ACCORDANCE WITH WISCONSIN DNR REQUIREMENTS AND AS REQUIRED BY THE CITY OF FRANKLIN.

L	E(ΞE	'N	D
_				

1" DIAMETER IRON PIPE FOUND (IPF)		EASEMENT LINE
SANITARY MANHOLE	<u> </u>	SETBACKLINE
STORM MANHOLE		EXTERIOR PROPERTY LI
CATCH BASIN ROUND		ADJACENT LOT LINE
CATCH BASIN SQUARE	W	WATER MAIN
OUTFALL PIPE	SAN	SANITARY SEWER
LIGHT POLE	ST	STORM SEWER
POWER POLE	FIB	FIBER OPTIC
TELEPHONE PEDESTAL	T	UNDERGROUND TELEPH
SIGN	——————————————————————————————————————	UNDERGROUND ELECTRI
ELECTRICAL PEDESTAL/TRANSFORMER	<u>55555</u>	RIP RAP
CONIFEROUS TREE	\oplus	PROPOSED STORM INLE
DECIDUOUS TREE	st	PROPOSED STORM SEW
BUSH	723	PROPOSED 1' CONTOUR
	725	PROPOSED 5' CONTOUR
PROPOSED INLET PROTECTION	SF	SILT FENCE
	X X	SAWCUT
	SANITARY MANHOLE STORM MANHOLE CATCH BASIN ROUND CATCH BASIN SQUARE OUTFALL PIPE LIGHT POLE POWER POLE TELEPHONE PEDESTAL SIGN ELECTRICAL PEDESTAL/TRANSFORMER CONIFEROUS TREE BUSH	SANITARY MANHOLE STORM MANHOLE CATCH BASIN ROUND CATCH BASIN SQUARE OUTFALL PIPE LIGHT POLE POWER POLE TELEPHONE PEDESTAL SIGN ELECTRICAL PEDESTAL/TRANSFORMER CONIFEROUS TREE DECIDUOUS TREE BUSH 723 PROPOSED INLET PROTECTION







LET EWER



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

• Engineers • Surveyors • Planners

"BUILDING RELATIONSHIPS WITH A COMMITMENT TO CLIENT SATISFACTION THROUGH TRUST, QUALITY AND EXPERIENCE"

 CIVIL ENGINEERING • SURVEYING & MAPPING CONSTRUCTION SERVICES WATER RESOURCES PLANNING & DEVELOPMENT TRANSPORTATION ENGINEERING LANDSCAPE ARCHITECTURE MILWAUKEE REGIONAL OFFICE N22 W22931 NANCY'S COURT SUITE 3

WAUKESHA, WISCONSIN 53186 262.513.0666 PHONE 262.513.1232 FAX MADISON MILWAUKEE KENOSHA 🛛 APPLETON _____ www.jsdinc.com _____

PROJECT

ADDITIONS AND **ALTERATIONS TO:**

SOUTHBROOK CHURCH

11010 ST. MARTINS road FRANKLIN, WI 53132

DESCRIPTION 02-20-2015 REVISIONS PER CITY COMMENTS
 1
 02-202013
 EXISIONS PERION
 EXIST

 2
 03-13-2015
 BID & PERMIT SET
 3
 04-02-2015
 ADDENDUM NO. 1

 4
 05-04-2015
 ADDENDUM NO. 2
 5
 05-15-2015
 ADDED WETLAND PROTECTION

PROJECT INFO

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

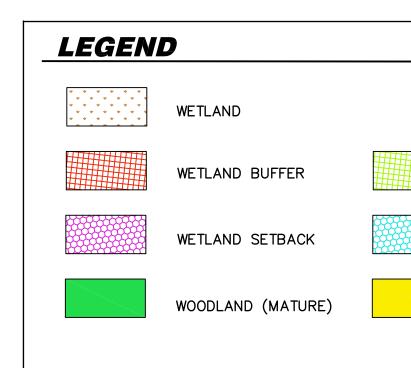
SHEET TITLE

GRADING AND EROSIO CONTROL PLAN



© Groth Design Group, Inc.

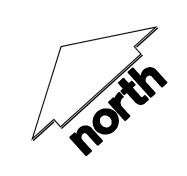




ral Rescurce Feature	Protection Standard Based Upon Zoning District Type (circle applicable standard from Table 15-4.0100 for the type of zoning district in which the parcel is located)			Acres of Land in Resource Feature		Acres of Land Required to be Preserved	Acres of Land to be Impacted	Acres of Land Required to be Mitigated	Acres of Land to be Mitigated*
	Agricultural District	Residential District	Non- Residential District						217
Slopes %	0	0.6	0.4	x	0.00 =	0.00	0.00	0.00	N/A
%	0.65	0.75	0.7	x	0.00 =	0.00	0.00	0.00	N/A
+	0.9	0.85	0.8	x	0.00 =	0.00	0.00	0.00	N/A
lands & Forests e	0.7 0.5	0.7 0.5	0.7 0.5	x x	2.38 = 0.00 =	1.66 0.00	0.34 0.00	0.00 0.00	N/A N/A
& Ponds	1	1	1	x	0.00 =	0.00	0.00	0.00	N/A
ms	1	1	1	x	0.00 =	0.00	0.00	0.00	N/A
Buffer	1	1	1	x	0.00 =	0.00	0.00	0.00	N/A
plains/Floodlands	1	1	1	x	0.00 =	0.00	0.00	0.00	N/A
nd Buffers	1	1	1	x	2.27 =	2.27	0.26	0.00	N/A
nds & Shoreland nds	1	- 1.	1	x	4.78 =	4.78	0.06	0.00	N/A
nd Setback	1	1	1	X	0.00	0.00	0.08	0.00	N/A

WETLAND BUFFER DISTURBANCE WETLAND SETBACK DISTURBANCE WOODLAND (MATURE) DISTURBANCE

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 PEF R.A. SMITH NA	R 2012 WETLAND DELINEATION BY TIONAL
6.	REFER TO CEF EASEMENTS.	RTIFIED SURVEY MAP FOR PROPOSED



SCALE IN FEET 60' 0 60'



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



"BUILDING RELATIONSHIPS WITH A COMMITMENT TO CLIENT SATISFACTION THROUGH TRUST, QUALITY AND EXPERIENCE"

CIVIL ENGINEERINGSURVEYING & MAPPING • CONSTRUCTION SERVICES • WATER RESOURCES • PLANNING & DEVELOPMENT TRANSPORTATION ENGINEERING
LANDSCAPE ARCHITECTURE MILWAUKEE REGIONAL OFFICE N22 W22931 NANCY'S COURT SUITE 3 WAUKESHA, WISCONSIN 53186 262.513.0666 PHONE 262.513.1232 FAX

MADISON MILWAUKEE KENOSHA APPLETON ——— www.jsdinc.com ———

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

