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Data Source: SEWRPC, Milwaukee County GIS

**R.A. Smith National**  
Beyond Surveying and Engineering

0 75 150

1 inch = 150 feet

September 28, 2015  
1150531

Approx. 10-Acre Study Area  
Located at 6803 S. 27th Street  
City of Franklin  
Milwaukee County, WI

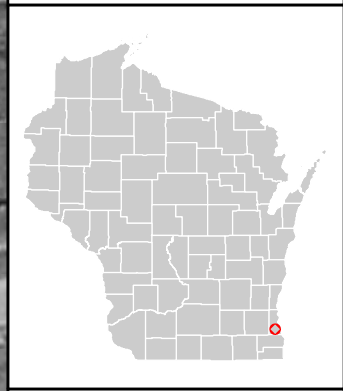



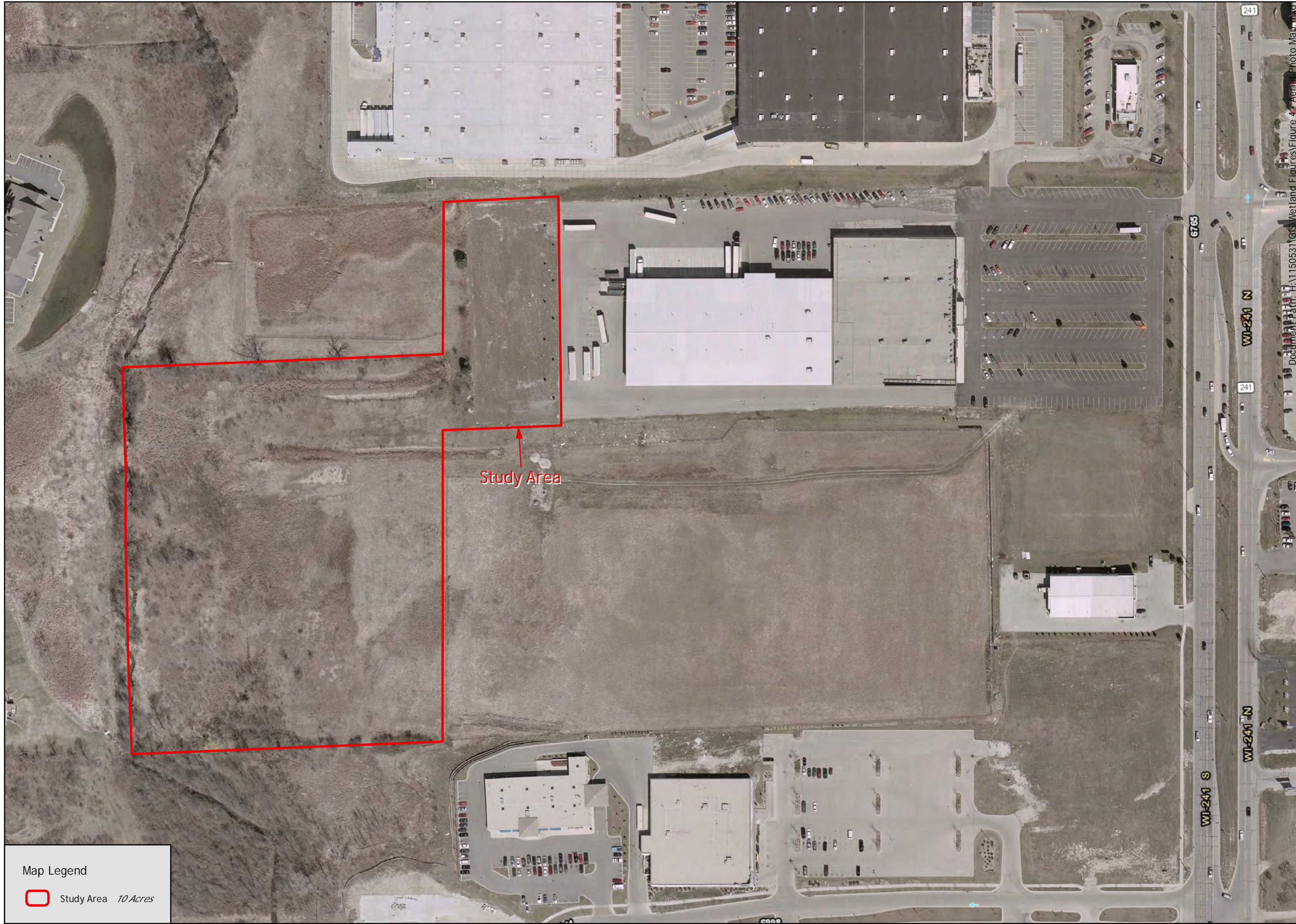
Figure 4D  
2000 Aerial Photo Map

Map Legend

 Study Area 10 Acres

Document Path: H:\1150531\GIS\Wetland Figures\Figure 4 - Aerial Photo Map.mxd





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September 28, 2015  
1150531

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Milwaukee County, WI



Figure 4E  
2005 Aerial Photo Map

Map Legend


 Study Area 10 Acres

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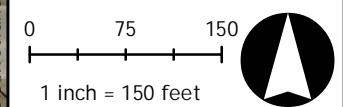
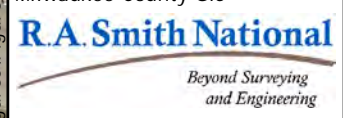


Map Legend

 Study Area 10 Acres

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September 28, 2015  
1150531

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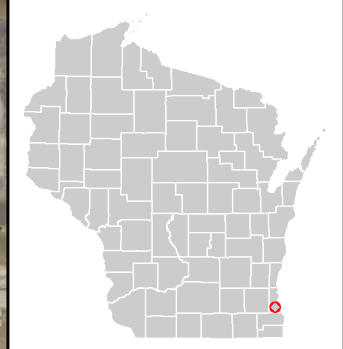


Figure 4F  
2010 Aerial Photo Map

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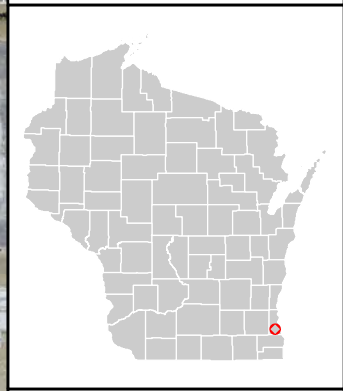



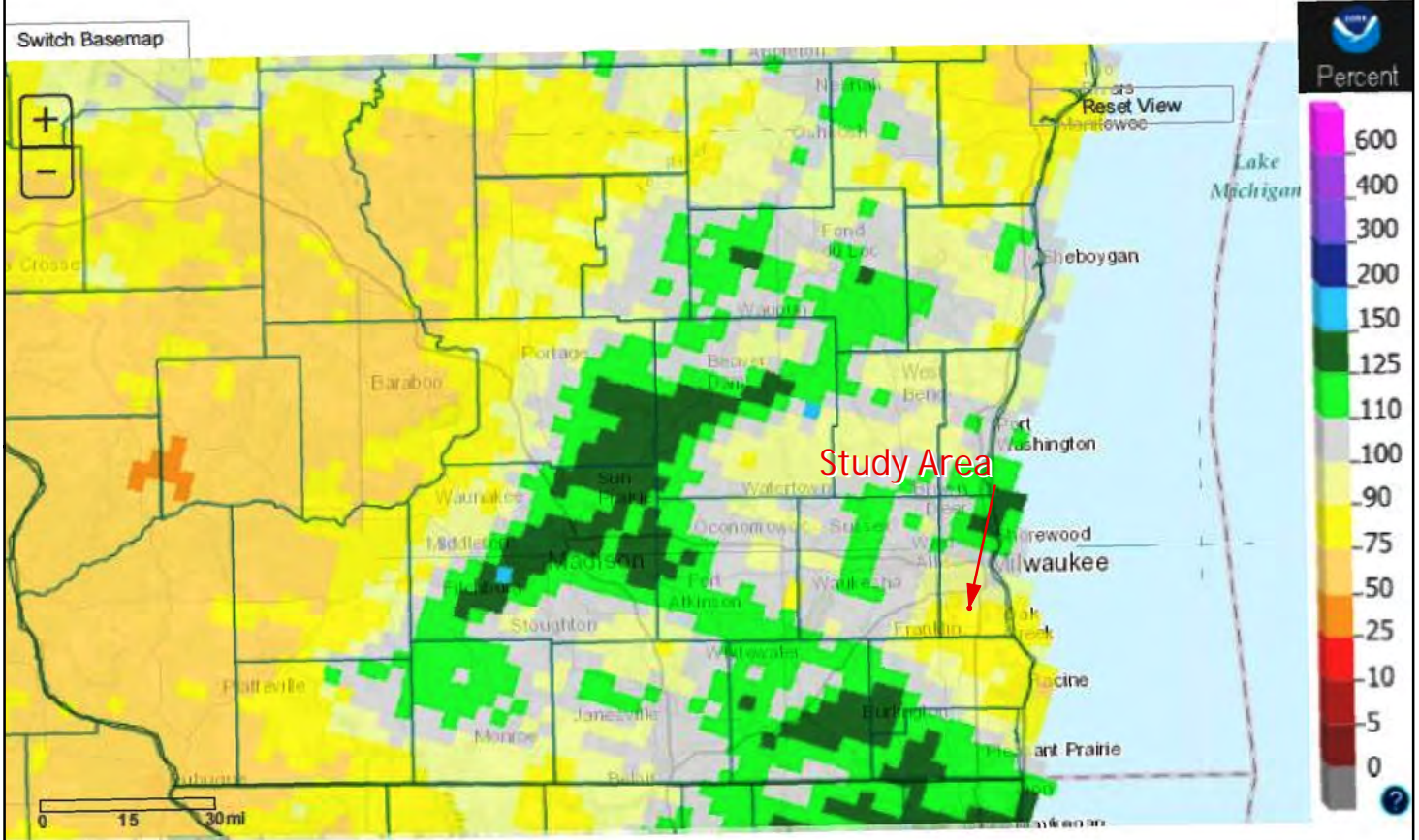
Figure 4G  
2013 Aerial Photo Map

Map Legend

 Study Area 10 Acres

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Milwaukee/Sullivan, WI: 90-Day Percent of Normal Precipitation  
Valid on: September 28, 2015 12:00 UTC

The project area falls within -90% to -75% of the normal precipitation range

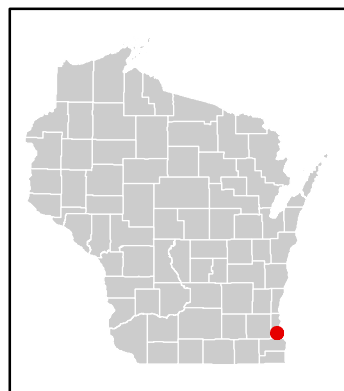


Figure 5  
90-Day Percent of  
Normal Precipitation Map  
Approx. 10-Acre Study Area  
Located at 6803 S. 27th Street  
City of Franklin  
Milwaukee County, WI

Data Sources:  
NOAA AHPS website



## **Appendix 2:**

**WETS Table Analysis, NRCS WETS Table & Daily Precipitation Table**

## WETS Analysis Worksheet

Project Name: 10-Acre Site at 6803 S 27th Street  
 Project Number: 1150531  
 Period of interest: July-Sept, 2015  
 County: Milwaukee

**Long-term rainfall records (from WETS table)**

	Month	3 years in 10 less than	Normal	3 years in 10 greater than
1st month prior:	Sept	1.56	3.30	4.03
2nd month prior:	August	2.8	4.03	4.79
3rd month prior:	July	2.4	3.58	4.28
		Sum =	<b>10.91</b>	

**Site determination**

Site Rainfall (in)	Condition Dry/Normal*/Wet	Condition** Value	Month Weight	Product
4.44	Wet	3	3	9
3.46	Normal	2	2	4
1.6	Dry	1	1	1
		Sum =	Sum*** =	<b>14</b>

\*Normal precipitation with 30% to 70% probability of occurrence

Determination:  Wet  
 Dry  
 Normal

\*\*Condition value:

\*\*\*If sum is:

Dry = 1	6 to 9	then period has been drier than normal
Normal = 2	10 to 14	then period has been normal
Wet = 3	15 to 18	then period has been wetter than normal

Precipitation data source: WETS Table: Milwaukee Mitchell AP WI 839, Milwaukee County, WI

Reference: Donald E. Woodward, ed. 1997. *Hydrology Tools for Wetland Determination*, Chapter 19. Engineering Field Handbook. U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, TX.

## **Appendix 3:**

### **Site Photographs**





**Photograph 1 (9/28/15):** Northfacing view of W-1 which contains fresh (wet) meadow and shallow marsh plant communities.



**Photograph 2 (9/28/15):** Southwest facing view of W-2 and it's adjacent upland meadow. W-1 is also visible on the far left side of the photo.





**Photograph 3 (9/28/15):** South facing view of the site near W-1 and W-2.



**Photograph 4 (9/28/15):** West facing view of the two wetland ditches that are associated with W-2, as well as the upland berm between them.





**Photograph 5 (9/28/15):** General southwest facing overview of the southern portion of the site.



**Photograph 6 (9/28/15):** South facing view of the waterway that traverses south along the western boundary of the site.





**Photograph 7 (9/28/15):** West facing view of W-3, a degraded fresh wet meadow dominated by giant reed grass (*Phragmites australis*). Upland data point DP-12 is visible in the foreground.



**Photograph 8 (9/28/15):** General north facing view of the uplands on the north side of the site which were dominated by mostly invasive and weedy species.



## **Appendix 4:**

**Wetland Determination Data Forms – Midwest Region**



WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Approx.10-Acre Site at 6803 S. 27th Street City/County: City of Franklin / Milwaukee Sampling Date: September 28, 2015  
 Applicant/Owner: JSD Professional Services, Inc. State: WI Sampling Point: 1  
 Investigator(s): Heather D. Patti & Tina M. Myers Section, Township, Range: SE 1/4 Sec 1, T5N, R21E  
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none- flat  
 Slope (%): 0% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Blount silt loam, 1-3% slopes (BIA) WWI Classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (if no, explain in Remarks)  
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N Soil N or Hydrology N naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	If yes, optional wetland site ID:	<u>none - upland</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Remarks: Data point is located within an upland meadow dominated by weedy species. Topography is relatively flat in this area.

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

Sampling Point: 1

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	<u>0%</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15'R</u> )				<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>40</u> x 3 = <u>120</u> FACU species <u>85</u> x 4 = <u>340</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>125</u> (A) <u>460</u> (B)  Prevalence Index B/A = <u>3.7</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	<u>0%</u> = Total Cover			
Herb Stratum (Plot size: <u>5'R</u> )				<b>Hydrophytic Vegetation Indicators:</b> _____ Rapid Test for Hydrophytic Vegetation _____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Lotus corniculatus</u>	<u>40%</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Poa pratensis</u>	<u>40%</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Poa compressa</u>	<u>20%</u>	<u>N</u>	<u>FACU</u>	
4. <u>Cirsium arvense</u>	<u>10%</u>	<u>N</u>	<u>FACU</u>	
5. <u>Solidago canadensis</u>	<u>10%</u>	<u>N</u>	<u>FACU</u>	
6. <u>Elymus repens</u>	<u>5%</u>	<u>N</u>	<u>FACU</u>	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	<u>125%</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>30'R</u> )				<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	<u>0%</u> = Total Cover			

Remarks: (Include photo numbers here or on a separate sheet.) This plant community is an upland meadow "old-field".



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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 5/3	100%	-				si cl loam	
10-20	10YR 5/3	50%	10YR 5/6	5%	C	M	silty clay	
	7.5YR 5/3	45%						

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

<b>Hydric Soil Indicators:</b>		<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR,K,L,R)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7) (LRR,K,L)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 5 cm mucky peat or peat (S3) (LRR,K,L)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR,K,L,R)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> 2 cm Much (A10)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)		

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

<b>Restrictive Layer (if observed):</b> Type: <u>none</u> Depth (inches): <u>n/a</u>	<b>Hydric Soil Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	---

Remarks: Hydric soil criterion is not met. Soil profile was dry throughout.

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		<b>Secondary Indicators (minimum of two required)</b>	
Primary Indicators (minimum of one is required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		

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

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: **USGS Topo Map (Figure 1, Appendix 1), 2-foot contour map (Figure 2, Appendix 1), WDNR Surface Water Data Viewer Map with NRCS Soils and WWI mapped wetlands (Figure 3, Appendix 1), Aerial photos from 1970, 1980, 1990, 2000, 2005, 2010, and 2013 (Figures 4A-G, Appendix 1), NOAA Precipitation Map (Figure 5, Appendix 1), and WET Analysis & data (Appendix 2)**

Remarks: No wetland hydrology indicators present. Both WETS Analysis and NOAA Precipitation map show climatic conditions are within the normal range, although they are on the dry end of the normal range.



WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Approx.10-Acre Site at 6803 S. 27th Street City/County: Milwaukee City of Franklin /  
 Applicant/Owner: JSD Professional Services, Inc. State: WI Sampling Date: September 28, 2015  
 Investigator(s): Heather D. Patti & Tina M. Myers Section, Township, Range: SE 1/4 Sec 1, T5N, R21E  
 Landform (hillslope, terrace, etc.): slight depression Local relief (concave, convex, none): slightly concave  
 Slope (%): 0% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Blount silt loam, 1-3% slopes (BIA) WWI Classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (if no, explain in Remarks)  
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N Soil N or Hydrology \*Y naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	If yes, optional wetland site ID:	<u>W-1</u>	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	Remarks: <b>*Seasonal hydrology in this wetland- fresh wet meadow fringe around a small shallow marsh. Wetland appears to be perched on a hard clay pan.</b>		

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

Sampling Point: 2

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0%</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15'R</u> )				<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index B/A = _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0%</u>	= Total Cover		
Herb Stratum (Plot size: <u>5'R</u> )				<b>Hydrophytic Vegetation Indicators:</b> _____ Rapid Test for Hydrophytic Vegetation _____ <u>X</u> Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Phalaris arundinacea</u>	<u>60%</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Poa pratensis</u>	<u>40%</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Juncus tenuis</u>	<u>15%</u>	<u>N</u>	<u>FAC</u>	
4. <u>Euthamia graminifolia</u>	<u>15%</u>	<u>N</u>	<u>FACW</u>	
5. <u>Symphytotrichum novae-angliae</u>	<u>10%</u>	<u>N</u>	<u>FACW</u>	
6. <u>Solidago gigantea</u>	<u>10%</u>	<u>N</u>	<u>FACW</u>	
7. <u>Solidago canadensis</u>	<u>5%</u>	<u>N</u>	<u>FACU</u>	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>155%</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>30'R</u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0%</u>	= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.) This is a <b>fresh (wet) meadow community with seasonal hydrology.</b>				



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

Depth (inches)	Matrix		Redox Features					Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>			
0-8	10YR 4/2	100%						silty clay	
8-14	10YR 4/2	70%	10YR 5/6	10%	C	M		silty clay	
	10YR 5/3	20%							
14-20	7.5YR 4/2	60%	10YR 5/6	10%	C	M		clay	
	7.5YR 4/3	30%							

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

**Hydric Soil Indicators:**

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

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

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

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

**Restrictive Layer (if observed):**

Type: none  
Depth (inches): n/a

Hydric Soil Present?    Yes   X      No       

Remarks: **Hydric soil criteria is met. Heavy clay and mixed matrices indicates past soil disturbance.**

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

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

**Field Observations:**

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

Wetland Hydrology Present?    Yes   X      No       

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: **USGS Topo Map (Figure 1, Appendix 1), 2-foot contour map (Figure 2, Appendix 1), WDNR Surface Water Data Viewer Map with NRCS Soils and WWI mapped wetlands (Figure 3, Appendix 1), Aerial photos from 1970, 1980, 1990, 2000, 2005, 2010, and 2013 (Figures 4A-G, Appendix 1), NOAA Precipitation Map (Figure 5, Appendix 1), and WET Analysis & data (Appendix 2)**

Remarks: **One primary and two secondary indicators are present. Both WETS Analysis and NOAA Precipitation map show climatic conditions are within the normal range, although they are on the dry end of the normal range.**



WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Approx.10-Acre Site at 6803 S. 27th Street City/County: Milwaukee City of Franklin /  
 Applicant/Owner: JSD Professional Services, Inc. State: WI Sampling Date: September 28, 2015  
 Investigator(s): Heather D. Patti Section, Township, Range: SE 1/4 Sec 1, T5N, R21E  
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none- flat  
 Slope (%): 0% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Blount silt loam, 1-3% slopes (BIA) WWI Classification: E1K  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (if no, explain in Remarks)  
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N Soil N or Hydrology N naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	If yes, optional wetland site ID:	<u>none - upland</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	Remarks: <u>Data point lies within an upland "old-field with stunted vegetation on heavy clay soil. Topography is relatively flat in this area.</u>		

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

Sampling Point: 3

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>4</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0%</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index B/A = _____
1. <u>Rhamnus cathartica</u>	<u>5%</u>	<u>Y</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>5%</u>	= Total Cover		
Herb Stratum (Plot size: <u>5'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> _____ Rapid Test for Hydrophytic Vegetation _____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Daucus carota</u>	<u>25%</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Lotus corniculatus</u>	<u>20%</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Fragaria virginiana</u>	<u>20%</u>	<u>Y</u>	<u>FACU</u>	
4. <u>Taraxacum officinale</u>	<u>15%</u>	<u>N</u>	<u>FACU</u>	
5. <u>Carex granularis</u>	<u>10%</u>	<u>N</u>	<u>FACW</u>	
6. <u>Prunella vulgaris</u>	<u>10%</u>	<u>N</u>	<u>FAC</u>	
7. <u>Leucanthemum vulgare</u>	<u>10%</u>	<u>N</u>	<u>UPL</u>	
8. <u>Cornus alba</u>	<u>5%</u>	<u>N</u>	<u>FACW</u>	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>115%</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0%</u>	= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.) <u>Plant community is an upland meadow "old-field".</u>				



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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 5/3	100%					silty clay	
12-20	10YR 5/3 & 10YR 5/2	80% 10%	10YR 5/6	10%	C	M	silty clay	

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

<b>Hydric Soil Indicators:</b>		<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR,K,L,R)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7) (LRR,K,L)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 5 cm mucky peat or peat (S3) (LRR,K,L)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR,K,L,R)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> 2 cm Much (A10)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)		

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

<b>Restrictive Layer (if observed):</b> Type: <u>none</u> Depth (inches): <u>n/a</u>	<b>Hydric Soil Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: **Hydric soil criterion is not met. Soil profile is dry.**

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		<b>Secondary Indicators (minimum of two required)</b>
Primary Indicators (minimum of one is required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: **USGS Topo Map (Figure 1, Appendix 1), 2-foot contour map (Figure 2, Appendix 1), WDNR Surface Water Data Viewer Map with NRCS Soils and WWI mapped wetlands (Figure 3, Appendix 1), Aerial photos from 1970, 1980, 1990, 2000, 2005, 2010, and 2013 (Figures 4A-G, Appendix 1), NOAA Precipitation Map (Figure 5, Appendix 1), and WET Analysis & data (Appendix 2)**

Remarks: **No wetland hydrology indicators present. Both WETS Analysis and NOAA Precipitation map show climatic conditions are within the normal range, although they are on the dry end of the normal range.**



WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Approx.10-Acre Site at 6803 S. 27th Street City/County: City of Franklin / Milwaukee Sampling Date: September 28, 2015  
 Applicant/Owner: JSD Professional Services, Inc. State: WI Sampling Point: 4  
 Investigator(s): Heather D. Patti Section, Township, Range: SE 1/4 Sec 1, T5N, R21E  
 Landform (hillslope, terrace, etc.): slight depression Local relief (concave, convex, none): slightly concave  
 Slope (%): 0% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Blount silt loam, 1-3% slopes (BIA) WWI Classification: E1K  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (if no, explain in Remarks)  
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N Soil N or Hydrology \*Y naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	If yes, optional wetland site ID:	<u>W-1</u>	
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Remarks: **\*Seasonal hydrology in this wetland- shallow (cattail) marsh with narrow fresh wet meadow fringe. Wetland appears to be perched on a hard clay pan.**

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

Sampling Point: 4

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)	
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	<u>0%</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index B/A = _____	
1. <u>Fraxinus pennsylvanica</u>	<u>3%</u>	<u>N</u>	<u>FACW</u>		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	<u>3%</u> = Total Cover				
Herb Stratum (Plot size: <u>5'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Rapid Test for Hydrophytic Vegetation <u>X</u> Dominance Test is >50% Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
1. <u>Typha angustifolia</u>	<u>60%</u>	<u>Y</u>	<u>OBL</u>		
2. <u>Juncus torreyi</u>	<u>40%</u>	<u>Y</u>	<u>FACW</u>		
3. <u>Juncus tenuis</u>	<u>20%</u>	<u>N</u>	<u>FAC</u>		
4. <u>Euthamia graminifolia</u>	<u>5%</u>	<u>N</u>	<u>FACW</u>		
5. <u>Agrostis gigantea</u>	<u>5%</u>	<u>N</u>	<u>FACW</u>		
6. <u>Daucus carota</u>	<u>3%</u>	<u>N</u>	<u>UPL</u>		
7. <u>Symphotrichum novae-angliae</u>	<u>3%</u>	<u>N</u>	<u>FACW</u>		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
13. _____	_____	_____	_____		
14. _____	<u>136%</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____	
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	<u>0%</u> = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.) **Shallow marsh with a fresh wet meadow fringe.**



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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR 5/3	100%					silty clay	
5-12	10YR 5/2	85%	10YR 5/6	15%	C	M	clay	
12-20	10YR 6/1	50%	10YR 5/6	10%	C	M	clay	
	10YR 5/2	40%						

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

**Hydric Soil Indicators:**

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

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

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

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

**Restrictive Layer (if observed):**

Type: none  
 Depth (inches): n/a

Hydric Soil Present? Yes X No     

Remarks: **Hydric soil criteria is met. Heavy clay and mixed matrices indicates past soil disturbance.**

**HYDROLOGY**

**Wetland Hydrology Indicators:**

- Primary Indicators (minimum of one is required; check all that apply)
- 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)

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

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

**Field Observations:**

Surface Water Present? Yes      No X Depth (inches):       
 Water Table Present? Yes      No X Depth (inches):       
 Saturation Present? Yes X No      Depth (inches): 0"  
 (includes capillary fringe)

Wetland Hydrology Present? Yes X No     

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: **USGS Topo Map (Figure 1, Appendix 1), 2-foot contour map (Figure 2, Appendix 1), WDNR Surface Water Data Viewer Map with NRCS Soils and WWI mapped wetlands (Figure 3, Appendix 1), Aerial photos from 1970, 1980, 1990, 2000, 2005, 2010, and 2013 (Figures 4A-G, Appendix 1), NOAA Precipitation Map (Figure 5, Appendix 1), and WET Analysis & data (Appendix 2)**

Remarks: **One primary and three secondary indicators present. Both WETS Analysis and NOAA Precipitation map show climatic conditions are within the normal range, although on the dry end of the normal range.**

**WETLAND DETERMINATION DATA FORM - Midwest Region**

Project/Site: Approx.10-Acre Site at 6803 S. 27th Street City/County: City of Franklin / Milwaukee Sampling Date: September 28, 2015  
 Applicant/Owner: JSD Professional Services, Inc. State: WI Sampling Point: 5  
 Investigator(s): Heather D. Patti Section, Township, Range: SE 1/4 Sec 1, T5N, R21E  
 Landform (hillslope, terrace, etc.): backslope Local relief (concave, convex, none): convex  
 Slope (%): 15% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Morley silt loam, 2-6% slopes (MzdB) WWI Classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (if no, explain in Remarks)  
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N Soil N or Hydrology N naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	If yes, optional wetland site ID:	<u>none - upland</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Remarks: **This data point is located within an upland old-field with stunted vegetation on clay soil. Topography is moderate in this area.**

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

Sampling Point: 5

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	<u>0%</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>80</u> x 3 = <u>240</u> FACU species <u>80</u> x 4 = <u>320</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>165</u> (A) <u>585</u> (B)  Prevalence Index B/A = <u>3.5</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	<u>0%</u>	= Total Cover		
Herb Stratum (Plot size: <u>5'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> _____ Rapid Test for Hydrophytic Vegetation _____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Poa pratensis</u>	<u>80%</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Elymus repens</u>	<u>40%</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Lotus corniculatus</u>	<u>30%</u>	<u>N</u>	<u>FACU</u>	
4. <u>Cirsium arvense</u>	<u>10%</u>	<u>N</u>	<u>FACU</u>	
5. <u>Daucus carota</u>	<u>5%</u>	<u>N</u>	<u>UPL</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	<u>165%</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	<u>0%</u>	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.) **Plant community is an upland meadow "old-field" comprised mostly of weeds.**



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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 5/3	100%					silty clay	
12-20	7.5YR 4/3	40%	10YR 5/6	10%	C	M	clay	
	10YR 5/3	50%						

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

<b>Hydric Soil Indicators:</b>		<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR,K,L,R)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7) (LRR,K,L)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 5 cm mucky peat or peat (S3) (LRR,K,L)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR,K,L,R)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> 2 cm Much (A10)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)	

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

<b>Restrictive Layer (if observed):</b> Type: <u>none</u> Depth (inches): <u>n/a</u>	<b>Hydric Soil Present?</b> Yes <u>      </u> No <u> X</u>
--	--

Remarks: **Hydric soil criterion is not met. Soil profile is dry.**

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>	<b>Secondary Indicators (minimum of two required)</b>
Primary Indicators (minimum of one is required; check all that apply)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	

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

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: **USGS Topo Map (Figure 1, Appendix 1), 2-foot contour map (Figure 2, Appendix 1), WDNR Surface Water Data Viewer Map with NRCS Soils and WWI mapped wetlands (Figure 3, Appendix 1), Aerial photos from 1970, 1980, 1990, 2000, 2005, 2010, and 2013 (Figures 4A-G, Appendix 1), NOAA Precipitation Map (Figure 5, Appendix 1), and WET Analysis & data (Appendix 2)**

Remarks: **No wetland hydrology indicators present. Both WETS Analysis and NOAA Precipitation map show climatic conditions are within the normal range, although they are on the dry end of the normal range.**

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Approx.10-Acre Site at 6803 S. 27th Street City/County: City of Franklin / Milwaukee Sampling Date: September 28, 2015  
 Applicant/Owner: JSD Professional Services, Inc. State: WI Sampling Point: 6  
 Investigator(s): Heather D. Patti Section, Township, Range: SE 1/4 Sec 1, T5N, R21E  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave  
 Slope (%): 0% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Blount silt loam, 1-3% slopes (BIA) WWI Classification: E1K  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (if no, explain in Remarks)  
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N Soil N or Hydrology \*Y naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	If yes, optional wetland site ID:	<u>W-2</u>	
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Remarks: **\*Seasonal hydrology in this wetland - this is a shallow (cattail) marsh with a fresh wet meadow fringe.**

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

Sampling Point: 6

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>1</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0%</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index B/A = _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0%</u>	= Total Cover		
Herb Stratum (Plot size: <u>5'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Rapid Test for Hydrophytic Vegetation <u>X</u> Dominance Test is >50% Prevalence Index is ≤ 3.0 <sup>1</sup> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>Phragmites australis</u>	<u>90%</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Euthamia graminifolia</u>	<u>25%</u>	<u>N</u>	<u>FACW</u>	
3. <u>Helenium autumnale</u>	<u>20%</u>	<u>N</u>	<u>FACW</u>	
4. <u>Juncus tenuis</u>	<u>10%</u>	<u>N</u>	<u>FAC</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>145%</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0%</u>	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.) **Shallow marsh with a fresh wet meadow fringe dominated by giant reed grass (*Phragmites australis*).**



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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 4/3	100%	-				silty clay	
6-12	10YR 4/2	90%	10YR 5/6	15%	C	M	clay	
12-20	2.5Y 5/2	70%	10YR 5/6	10%	C	M	clay	
	10YR 4/2	20%						

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

**Hydric Soil Indicators:**

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

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

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

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

**Restrictive Layer (if observed):**

Type: none  
 Depth (inches): n/a

Hydric Soil Present? Yes X No     

Remarks: **Hydric soil criteria is met. Heavy clay and mixed matrices indicates past soil disturbance.**

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- 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)

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

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

**Field Observations:**

Surface Water Present? Yes      No X Depth (inches):       
 Water Table Present? Yes      No X Depth (inches):       
 Saturation Present? Yes X No      Depth (inches): 10"  
 (includes capillary fringe)

Wetland Hydrology Present? Yes X No     

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: **USGS Topo Map (Figure 1, Appendix 1), 2-foot contour map (Figure 2, Appendix 1), WDNR Surface Water Data Viewer Map with NRCS Soils and WWI mapped wetlands (Figure 3, Appendix 1), Aerial photos from 1970, 1980, 1990, 2000, 2005, 2010, and 2013 (Figures 4A-G, Appendix 1), NOAA Precipitation Map (Figure 5, Appendix 1), and WET Analysis & data (Appendix 2)**

Remarks: **One primary and two secondary indicators present. Both WETS Analysis and NOAA Precipitation map show climatic conditions are within the normal range, although they are on the dry end of the normal range.**

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Approx.10-Acre Site at 6803 S. 27th Street City/County: City of Franklin / Milwaukee Sampling Date: September 28, 2015  
 Applicant/Owner: JSD Professional Services, Inc. State: WI Sampling Point: 7  
 Investigator(s): Heather D. Patti Section, Township, Range: SE 1/4 Sec 1, T5N, R21E  
 Landform (hillslope, terrace, etc.): ditch Local relief (concave, convex, none): concave  
 Slope (%): 0% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Morley silt loam, 2-6% slopes, eroded (MzdB2) WWI Classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (if no, explain in Remarks)  
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N Soil N or Hydrology N naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>**X</u>	No _____	If yes, optional wetland site ID:	<u>W-2</u>	
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Remarks: \*Phragmites-dominated ditched wetland which flows west into the main body of W-2. \*\*Soils not examined due to potential contaminated soils, but assumed present based on topographic position, hydrophytic plant community, and other hydrology indicators.

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

Sampling Point: 7

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	<u>0%</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index B/A = _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	<u>0%</u> = Total Cover			
Herb Stratum (Plot size: <u>5'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Rapid Test for Hydrophytic Vegetation <u>X</u> Dominance Test is >50% Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Phragmites australis</u>	<u>100%</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	<u>100%</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____
1. <u>Vitis riparia</u>	<u>5%</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	<u>5%</u> = Total Cover			

Remarks: (Include photo numbers here or on a separate sheet.) **Wetland ditch dominated by invasive giant reed grass (*Phragmites australis*).**



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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 3/1	100%					silty clay	

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

<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Much (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b> <input type="checkbox"/> Coast Prairie Redox (A16) (LRR,K,L,R) <input type="checkbox"/> Dark Surface (S7) (LRR,K,L) <input type="checkbox"/> 5 cm mucky peat or peat (S3) (LRR,K,L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR,K,L,R) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

<b>Restrictive Layer (if observed):</b> Type: <u>none</u> Depth (inches): <u>n/a</u>	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
--	--

Remarks: \*Soils not examined beyond 6" due to potential for contaminated soils from Superfund site to the east. Hydric soil is assumed to be present based on location within a wetland ditch and dominant hydrophytic plant community.

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0"</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	--

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS Topo Map (Figure 1, Appendix 1), 2-foot contour map (Figure 2, Appendix 1), WDNR Surface Water Data Viewer Map with NRCS Soils and WWI mapped wetlands (Figure 3, Appendix 1), Aerial photos from 1970, 1980, 1990, 2000, 2005, 2010, and 2013 (Figures 4A-G, Appendix 1), NOAA Precipitation Map (Figure 5, Appendix 1), and WET Analysis & data (Appendix 2)

Remarks: One primary and four secondary indicators present. Both WETS Analysis and NOAA Precipitation map show climatic conditions are within the normal range, although they are on the dry end of the normal range.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Approx.10-Acre Site at 6803 S. 27th Street City/County: City of Franklin / Milwaukee Sampling Date: September 28, 2015  
 Applicant/Owner: JSD Professional Services, Inc. State: WI Sampling Point: 8  
 Investigator(s): Heather D. Patti Section, Township, Range: SE 1/4 Sec 1, T5N, R21E  
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none- flat  
 Slope (%): 0% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Morley silt loam, 2-6% slopes, eroded (MzdB2) WWI Classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (if no, explain in Remarks)  
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N Soil N or Hydrology N naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	If yes, optional wetland site ID:	<u>none - upland</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	Remarks: <u>Data point lies within an upland old-field on clay soil. Topography is relatively flat in this area and is located between two ditched wetlands.</u>		

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

Sampling Point: 8

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)	
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	<u>0%</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index B/A = _____	
1. <u>Rhamnus cathartica</u>	<u>5%</u>	<u>Y</u>	<u>FAC</u>		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
6. _____	_____	_____	_____		
7. _____	<u>5%</u> = Total Cover				
Herb Stratum (Plot size: <u>5'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> _____ Rapid Test for Hydrophytic Vegetation _____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
1. <u>Lotus corniculatus</u>	<u>70%</u>	<u>Y</u>	<u>FACU</u>		
2. <u>Solidago canadensis</u>	<u>30%</u>	<u>Y</u>	<u>FACU</u>		
3. <u>Symphoricarum pilosum</u>	<u>20%</u>	<u>N</u>	<u>FACU</u>		
4. <u>Fragaria virginiana</u>	<u>20%</u>	<u>N</u>	<u>FACU</u>		
5. <u>Cornus alba</u>	<u>15%</u>	<u>N</u>	<u>FACW</u>		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
12. _____	_____	_____	_____		
13. _____	_____	_____	_____		
14. _____	<u>155%</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>	
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	<u>0%</u> = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.) Plant community is an upland old-field.



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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-10	10YR 5/3	100%	-				silty clay	
10-20	7.5YR 5/4	65%	10YR 5/6	5%	C	M	clay	also some small gravel
	10YR 5/3	30%						

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

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR,K,L,R)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7) (LRR,K,L)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 5 cm mucky peat or peat (S3) (LRR,K,L)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR,K,L,R)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> 2 cm Much (A10)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)		

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

<b>Restrictive Layer (if observed):</b> Type: <u>none</u> Depth (inches): <u>n/a</u>	<b>Hydric Soil Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: **Hydric soil criterion is not met. Soil profile is dry.**

**HYDROLOGY**

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: **USGS Topo Map (Figure 1, Appendix 1), 2-foot contour map (Figure 2, Appendix 1), WDNR Surface Water Data Viewer Map with NRCS Soils and WWI mapped wetlands (Figure 3, Appendix 1), Aerial photos from 1970, 1980, 1990, 2000, 2005, 2010, and 2013 (Figures 4A-G, Appendix 1), NOAA Precipitation Map (Figure 5, Appendix 1), and WET Analysis & data (Appendix 2)**

Remarks: **No wetland hydrology indicators present. Both WETS Analysis and NOAA Precipitation map show climatic conditions are within the normal range, although they are on the dry end of the normal range.**

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Approx.10-Acre Site at 6803 S. 27th Street City/County: City of Franklin / Milwaukee Sampling Date: September 28, 2015  
 Applicant/Owner: JSD Professional Services, Inc. State: WI Sampling Point: 9  
 Investigator(s): Heather D. Patti Section, Township, Range: SE 1/4 Sec 1, T5N, R21E  
 Landform (hillslope, terrace, etc.): ditch Local relief (concave, convex, none): concave  
 Slope (%): 0% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Blount silt loam, 1-3% slopes (BIA) WWI Classification: E1K  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (if no, explain in Remarks)  
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N Soil N or Hydrology N naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	If yes, optional wetland site ID:	<u>W-2</u>	
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Remarks: This is a shallow marsh ditch that flows easterly towards the main body of W-2.

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

Sampling Point: 9

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>Populus deltoides</u>	<u>5%</u>	<u>Y</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>5%</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index B/A = _____
1. <u>Salix interior</u>	<u>10%</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>10%</u> = Total Cover			
Herb Stratum (Plot size: <u>5'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Rapid Test for Hydrophytic Vegetation <u>X</u> Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Typha angustifolia</u>	<u>60%</u>	<u>Y</u>	<u>OBL</u>	
2. <u>Symphotrichum novae-angliae</u>	<u>10%</u>	<u>N</u>	<u>FACW</u>	
3. <u>Symphotrichum puniceum</u>	<u>10%</u>	<u>N</u>	<u>OBL</u>	
4. <u>Scirpus atrovirens</u>	<u>5%</u>	<u>N</u>	<u>OBL</u>	
5. <u>Epilobium coloratum</u>	<u>5%</u>	<u>N</u>	<u>OBL</u>	
6. <u>Equisetum hyemale</u>	<u>5%</u>	<u>N</u>	<u>FACW</u>	
7. <u>Juncus tenuis</u>	<u>5%</u>	<u>N</u>	<u>FAC</u>	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>100%</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____
1. <u>Vitis riparia</u>	<u>5%</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>5%</u> = Total Cover			

Remarks: (Include photo numbers here or on a separate sheet.) Shallow marsh wetland ditch dominated primarily by cattail.



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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-8	10YR 5/3	100%					silty clay	
8-13	10YR 4/2	95%	10YR 5/6	5%	C	M	clay	
13-20	10YR 5/2	30%	10YR 5/8	10%	C	M	clay	
	10YR 4/2	60%						

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

**Hydric Soil Indicators:**

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

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

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

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

**Restrictive Layer (if observed):**

Type: none  
 Depth (inches): n/a

Hydric Soil Present? Yes X No     

Remarks: **Hydric soil criteria is met. Heavy clay and mixed matrices indicates past soil disturbance.**

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)  Water-Stained Leaves (B9)
- High Water Table (A2)  Aquatic Fauna (B13)
- Saturation (A3)  True Aquatic Plants (B14)
- Water Marks (B1)  Hydrogen Sulfide Odor (C1)
- Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)
- Drift Deposits (B3)  Presence of Reduced Iron (C4)
- Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)
- Iron Deposits (B5)  Thin Muck Surface (C7)
- Inundation Visible on Aerial Imagery (B7)  Gauge or Well Data (D9)
- Sparsely Vegetated Concave Surface (B8)  Other (Explain in Remarks)

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

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

**Field Observations:**

Surface Water Present? Yes      No X Depth (inches):       
 Water Table Present? Yes      No X Depth (inches):       
 Saturation Present? Yes X No      Depth (inches): 0"  
 (includes capillary fringe)

Wetland Hydrology Present? Yes X No     

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: **USGS Topo Map (Figure 1, Appendix 1), 2-foot contour map (Figure 2, Appendix 1), WDNR Surface Water Data Viewer Map with NRCS Soils and WWI mapped wetlands (Figure 3, Appendix 1), Aerial photos from 1970, 1980, 1990, 2000, 2005, 2010, and 2013 (Figures 4A-G, Appendix 1), NOAA Precipitation Map (Figure 5, Appendix 1), and WET Analysis & data (Appendix 2)**

Remarks: **One primary and four secondary indicators present. Both WETS Analysis and NOAA Precipitation map show climatic conditions are within the normal range, although they are on the dry end of the normal range.**

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Approx.10-Acre Site at 6803 S. 27th Street City/County: City of Franklin / Milwaukee Sampling Date: September 28, 2015  
 Applicant/Owner: JSD Professional Services, Inc. State: WI Sampling Point: 10  
 Investigator(s): Heather D. Patti Section, Township, Range: SE 1/4 Sec 1, T5N, R21E  
 Landform (hillslope, terrace, etc.): backslope Local relief (concave, convex, none): convex  
 Slope (%): 5-10% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Blount silt loam, 1-3% slopes (BIA) WWI Classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (if no, explain in Remarks)  
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N Soil N or Hydrology N naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	If yes, optional wetland site ID:	<u>none - upland</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	Remarks: <u>Data point lies within an upland old-field on clay soil. Topography is moderate and Phragmites is growing upslope.</u>		

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

Sampling Point: 10

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>1</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0%</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index B/A = _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0%</u>	= Total Cover		
Herb Stratum (Plot size: <u>5'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Rapid Test for Hydrophytic Vegetation <u>X</u> Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>Phragmites australis</u>	<u>100%</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>100%</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0%</u>	= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.) <u>Plant community is a degraded upland with Phragmites growing upslope. Presence of Phragmites is attributed to stormwater runoff from the parking lot.</u>				



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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	10YR 3/2	100%	-				silty clay	
6-12	10YR 5/3	100%	-				silty clay	also some small gravel
12-20	10YR 5/3	50%	10YR 5/6	5%	C	M	clay	
	7.5YR 5/4	40%						

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

**Hydric Soil Indicators:**

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

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

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

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

**Restrictive Layer (if observed):**

Type: none  
 Depth (inches): n/a

Hydric Soil Present? Yes  No

Remarks: Hydric soil criterion is not met. Soil profile is dry.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

- Primary Indicators (minimum of one is required; check all that apply)
- 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)

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

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

**Field Observations:**

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

Wetland Hydrology Present? Yes  No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS Topo Map (Figure 1, Appendix 1), 2-foot contour map (Figure 2, Appendix 1), WDNR Surface Water Data Viewer Map with NRCS Soils and WWI mapped wetlands (Figure 3, Appendix 1), Aerial photos from 1970, 1980, 1990, 2000, 2005, 2010, and 2013 (Figures 4A-G, Appendix 1), NOAA Precipitation Map (Figure 5, Appendix 1), and WET Analysis & data (Appendix 2)

Remarks: No wetland hydrology indicators present except FAC-Neutral. Both WETS Analysis and NOAA Precipitation map show climatic conditions are within the normal range, although they are on the dry end of the normal range.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Approx.10-Acre Site at 6803 S. 27th Street City/County: City of Franklin / Milwaukee Sampling Date: September 28, 2015  
 Applicant/Owner: JSD Professional Services, Inc. State: WI Sampling Point: 11  
 Investigator(s): Heather D. Patti Section, Township, Range: SE 1/4 Sec 1, T5N, R21E  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave  
 Slope (%): 0% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Blount silt loam, 1-3% slopes (BIA) WWI Classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (if no, explain in Remarks)  
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N Soil N or Hydrology \*Y naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	If yes, optional wetland site ID:	<u>W-3</u>	
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Remarks: **Highly degraded wetland depression that formed around a manhole.\*Hydrology is seasonal.**

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

Sampling Point: 11

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0%</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index B/A = _____
1. <u>Salix amygdaloides</u>	<u>20%</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>20%</u> = Total Cover				
Herb Stratum (Plot size: <u>5'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Rapid Test for Hydrophytic Vegetation <u>X</u> Dominance Test is >50% Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. <u>Phragmites australis</u>	<u>90%</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Juncus tenuis</u>	<u>10%</u>	<u>N</u>	<u>FAC</u>	
3. <u>Symphotrichum novae-angliae</u>	<u>5%</u>	<u>N</u>	<u>FACW</u>	
4. <u>Euthamia graminifolia</u>	<u>5%</u>	<u>N</u>	<u>FACW</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
<u>110%</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____
1. <u>Vitis riparia</u>	<u>5%</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>5%</u> = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.) **Degraded wetland depression that formed around a manhole and is now dominated by Phragmites.**

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-7	10YR 3/1	100%	-				silty clay	
7-14	10YR 3/1	90%	10YR 3/4	5%	C	M	silty clay	
			10YR 5/1	5%	D	M		

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

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR,K,L,R)	
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Dark Surface (S7) (LRR,K,L)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 5 cm mucky peat or peat (S3) (LRR,K,L)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR,K,L,R)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> 2 cm Much (A10)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)		

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

<b>Restrictive Layer (if observed):</b> Type: <u>heavy clay and roots</u> Depth (inches): <u>14"</u>	Hydric Soil Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: Hydric soil criteria is met. Shovel refusal at 14" due to heavy clay and roots. Soils are moist, but not saturated.

**HYDROLOGY**

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	

<b>Field Observations:</b> Surface Water Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present?    Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS Topo Map (Figure 1, Appendix 1), 2-foot contour map (Figure 2, Appendix 1), WDNR Surface Water Data Viewer Map with NRCS Soils and WWI mapped wetlands (Figure 3, Appendix 1), Aerial photos from 1970, 1980, 1990, 2000, 2005, 2010, and 2013 (Figures 4A-G, Appendix 1), NOAA Precipitation Map (Figure 5, Appendix 1), and WET Analysis & data (Appendix 2)

Remarks: Two secondary indicators present and hydrology is seasonal. Both WETS Analysis and NOAA Precipitation map show climatic conditions are within the normal range, although they are on the dry end of the normal range.



WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Approx.10-Acre Site at 6803 S. 27th Street City/County: City of Franklin / Milwaukee Sampling Date: September 28, 2015  
 Applicant/Owner: JSD Professional Services, Inc. State: WI Sampling Point: 12  
 Investigator(s): Heather D. Patti Section, Township, Range: SE 1/4 Sec 1, T5N, R21E  
 Landform (hillslope, terrace, etc.): backslope Local relief (concave, convex, none): convex  
 Slope (%): 10% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Blount silt loam, 1-3% slopes (BIA) WWI Classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (if no, explain in Remarks)  
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N Soil N or Hydrology N naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	If yes, optional wetland site ID:	<u>none - upland</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	Remarks: <u>Data point lies within an upland old-field on heavy clay soil.</u>		

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

Sampling Point: 12

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)
1. <u>Robinia pseudoacacia</u>	<u>20%</u>	<u>Y</u>	<u>FACU</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>20%</u> = Total Cover			<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'R</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0%</u> = Total Cover			
Herb Stratum (Plot size: <u>5'R</u> )				<b>Hydrophytic Vegetation Indicators:</b> _____ Rapid Test for Hydrophytic Vegetation _____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Poa pratensis</u>	<u>70%</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Daucus carota</u>	<u>40%</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Trifolium hybridum</u>	<u>20%</u>	<u>N</u>	<u>FACU</u>	
4. <u>Solidago canadensis</u>	<u>15%</u>	<u>N</u>	<u>FACU</u>	
5. <u>Phragmites australis</u>	<u>10%</u>	<u>N</u>	<u>FACW</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>155%</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>30'R</u> )				<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0%</u> = Total Cover			
Remarks: (Include photo numbers here or on a separate sheet.) <u>Plant community is a degraded upland old-field with scattered black locust trees. Some Phragmites was observed growing upslope.</u>				

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 3/1	100%					silty clay	gravel present throughout
3-20	10YR 5/3	50%	10YR 5/6	10%	C	M	si cl loam	profile
	7.5YR 3/4	40%						

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

**Hydric Soil Indicators:**

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

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

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

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

**Restrictive Layer (if observed):**  
 Type: none  
 Depth (inches): n/a

Hydric Soil Present?    Yes         No X

Remarks: **Hydric soil criterion is not met. Soil profile is dry.**

HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		

**Field Observations:**

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

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: **USGS Topo Map (Figure 1, Appendix 1), 2-foot contour map (Figure 2, Appendix 1), WDNR Surface Water Data Viewer Map with NRCS Soils and WWI mapped wetlands (Figure 3, Appendix 1), Aerial photos from 1970, 1980, 1990, 2000, 2005, 2010, and 2013 (Figures 4A-G, Appendix 1), NOAA Precipitation Map (Figure 5, Appendix 1), and WET Analysis & data (Appendix 2)**

Remarks: **No wetland hydrology indicators present. Both WETS Analysis and NOAA Precipitation map show climatic conditions are within the normal range, although they are on the dry end of the normal range.**

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Approx.10-Acre Site at 6803 S. 27th Street City/County: City of Franklin / Milwaukee Sampling Date: September 28, 2015  
 Applicant/Owner: JSD Professional Services, Inc. State: WI Sampling Point: 13  
 Investigator(s): Heather D. Patti Section, Township, Range: SE 1/4 Sec 1, T5N, R21E  
 Landform (hillslope, terrace, etc.): backslope Local relief (concave, convex, none): convex  
 Slope (%): 5% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Morley silt loam, 2-6% slopes, eroded (MzdB2) WWI Classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (if no, explain in Remarks)  
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N Soil N or Hydrology N naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	If yes, optional wetland site ID:	<u>none - upland</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Remarks: **Data point lies within an upland "old-field" on heavy clay soil. Topography is moderate and *Phragmites* is growing upslope.**

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

Sampling Point: 13

Tree Stratum (Plot size: <u>30'R</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)
1. <u><i>Robinia pseudoacacia</i></u>	<u>45%</u>	<u>Y</u>	<u>FACU</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>45%</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15'R</u> )				<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index B/A = _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0%</u> = Total Cover			
Herb Stratum (Plot size: <u>5'R</u> )				<b>Hydrophytic Vegetation Indicators:</b> _____ Rapid Test for Hydrophytic Vegetation _____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u><i>Phragmites australis</i></u>	<u>80%</u>	<u>Y</u>	<u>FACW</u>	
2. <u><i>Solidago canadensis</i></u>	<u>30%</u>	<u>Y</u>	<u>FACU</u>	
3. <u><i>Poa pratensis</i></u>	<u>20%</u>	<u>N</u>	<u>FAC</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>130%</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>30'R</u> )				<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>0%</u> = Total Cover			

Remarks: (Include photo numbers here or on a separate sheet.) **Plant community is a degraded upland with *Phragmites* growing upslope. Presence of *Phragmites* is attributed to stormwater runoff from parking lot.**



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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-4	10YR 3/1	100%					silty clay	
4-10	10YR 5/3	98%	10YR 5/6	2%	C	M	silty clay	also some small gravel present
10-29	7.5YR 4/3	50%	10YR 5/6	5%	C	M	clay	
	10YR 5/3	40%						

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

**Hydric Soil Indicators:**

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

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

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

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

**Restrictive Layer (if observed):**

Type: none  
 Depth (inches): n/a

Hydric Soil Present? Yes  No

Remarks: **Hydric soil criterion is not met. Soil profile is dry.**

**HYDROLOGY**

**Wetland Hydrology Indicators:**

- Primary Indicators (minimum of one is required; check all that apply)
- 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)

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

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

**Field Observations:**

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

Wetland Hydrology Present? Yes  No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: **USGS Topo Map (Figure 1, Appendix 1), 2-foot contour map (Figure 2, Appendix 1), WDNR Surface Water Data Viewer Map with NRCS Soils and WWI mapped wetlands (Figure 3, Appendix 1), Aerial photos from 1970, 1980, 1990, 2000, 2005, 2010, and 2013 (Figures 4A-G, Appendix 1), NOAA Precipitation Map (Figure 5, Appendix 1), and WET Analysis & data (Appendix 2)**

Remarks: **No wetland hydrology indicators present. Both WETS Analysis and NOAA Precipitation map show climatic conditions are within the normal range, although they are on the dry end of the normal range.**

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Approx.10-Acre Site at 6803 S. 27th Street City/County: City of Franklin / Milwaukee Sampling Date: September 28, 2015  
 Applicant/Owner: JSD Professional Services, Inc. State: WI Sampling Point: 14  
 Investigator(s): Heather D. Patti Section, Township, Range: SE 1/4 Sec 1, T5N, R21E  
 Landform (hillslope, terrace, etc.): slight wetland swale Local relief (concave, convex, none): slightly concave  
 Slope (%): 0% Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Blount silt loam, 1-3% slopes (BIA) WWI Classification: none  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (if no, explain in Remarks)  
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N Soil N or Hydrology \*Y naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	If yes, optional wetland site ID:	<u>W-1</u>	
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Remarks: **This is a narrow swale connected to W-1. \*Hydrology is seasonal.**

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

Sampling Point: 14

Tree Stratum (Plot size: <u>Linear</u> )	Absolute % Cover	Dominant Species	Indicator Status	<b>Dominance Test Worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0%</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>Linear</u> )				<b>Prevalence Index Worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index B/A = _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0%</u> = Total Cover			
Herb Stratum (Plot size: <u>5'R</u> )				<b>Hydrophytic Vegetation Indicators:</b> <u>X</u> Rapid Test for Hydrophytic Vegetation <u>X</u> Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 <sup>1</sup> _____ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Eleocharis palustris</u>	<u>80%</u>	<u>Y</u>	<u>OBL</u>	
2. <u>Lotus corniculatus</u>	<u>20%</u>	<u>N</u>	<u>FACU</u>	
3. <u>Phalaris arundinacea</u>	<u>10%</u>	<u>N</u>	<u>FACW</u>	
4. <u>Typha angustifolia</u>	<u>10%</u>	<u>N</u>	<u>OBL</u>	
5. <u>Carex vulpinoidea</u>	<u>5%</u>	<u>N</u>	<u>FACW</u>	
6. <u>Euthamia graminifolia</u>	<u>5%</u>	<u>N</u>	<u>FACW</u>	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
	<u>130%</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>30'R</u> )				<b>Hydrophytic Vegetation Present?</b> Yes <u>X</u> No _____
1. <u>Vitis riparia</u>	<u>5%</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
	<u>5%</u> = Total Cover			

Remarks: (Include photo numbers here or on a separate sheet.) **This is a narrow, fresh (wet) meadow swale that drains into W-1.**

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 4/3	100%					silty cl lo	
1-8	10YR 3/2	90%	10YR 5/6	10%	C	M	silty clay	sm gravel/fill present
8-15*	10YR 5/3	85%	10YR 5/6	15%	C	M	silty clay	

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

**Hydric Soil Indicators:**

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

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

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

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

**Restrictive Layer (if observed):**

Type: heavy clay  
 Depth (inches): 15"

Hydric Soil Present? Yes X No   

Remarks: Hydric soil criteria is met. Redox concentrations started at just 1" below the soil surface. Indicator F6 is met.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

- Primary Indicators (minimum of one is required; check all that apply)
- 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)

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

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

**Field Observations:**

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

Wetland Hydrology Present? Yes X No   

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS Topo Map (Figure 1, Appendix 1), 2-foot contour map (Figure 2, Appendix 1), WDNR Surface Water Data Viewer Map with NRCS Soils and WWI mapped wetlands (Figure 3, Appendix 1), Aerial photos from 1970, 1980, 1990, 2000, 2005, 2010, and 2013 (Figures 4A-G, Appendix 1), NOAA Precipitation Map (Figure 5, Appendix 1), and WET Analysis & data (Appendix 2)

Remarks: Two secondary indicators present and hydrology is seasonal.



## **Appendix 5:**

### **NR 151 Wetland Susceptibility Table**

Wetland Category for Stormwater Permitting *			
Wetland	Highly Susceptible	Moderately Susceptible	Less Susceptible
W-1			X
W-2		X	
W-3			X

**Less Susceptible:** Dominated by 90% or greater invasive species

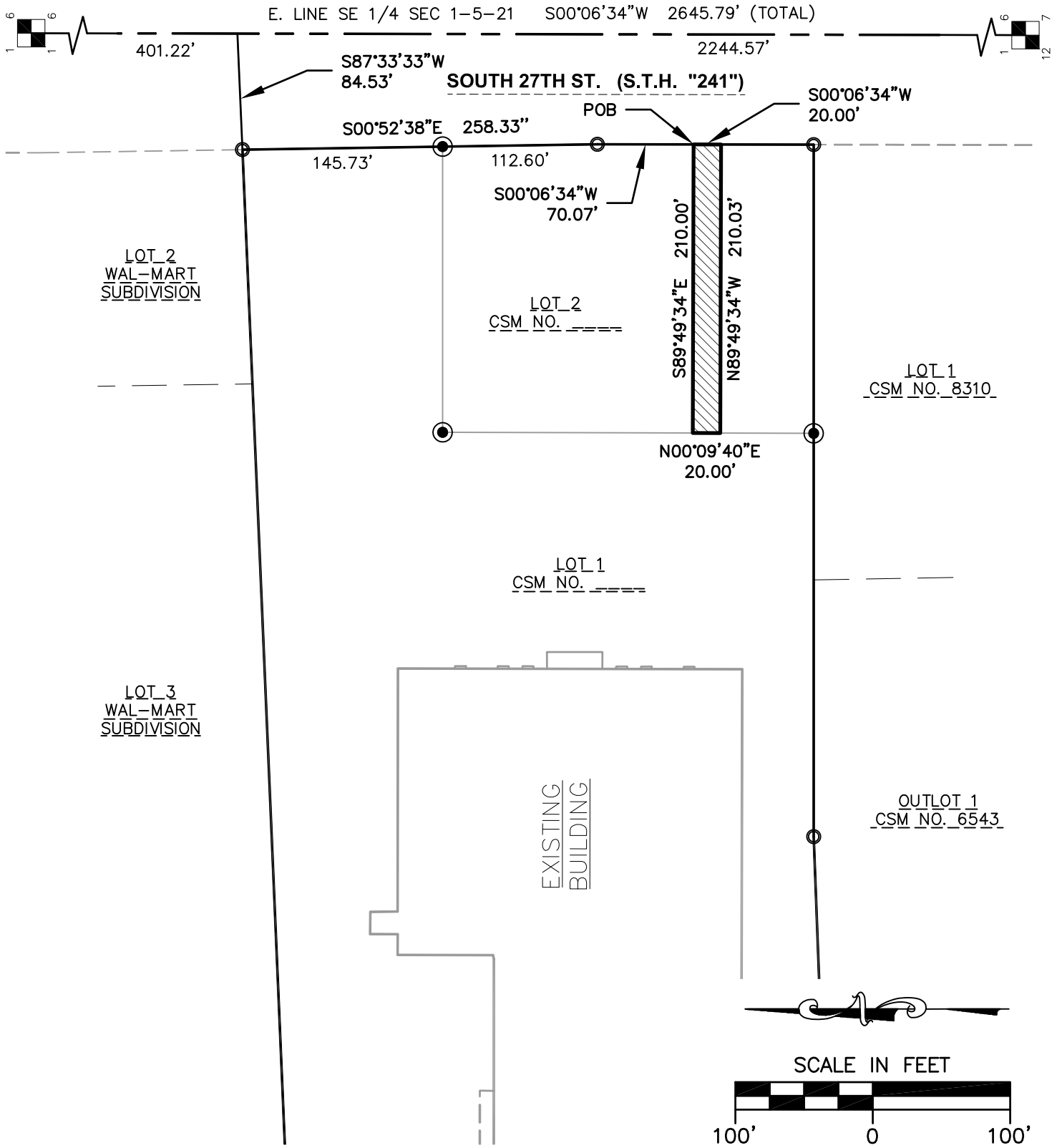
**Moderately Susceptible:** Sedge meadows, fens, bogs, forested wetlands, fresh wet meadows, shallow/deep marshes, various swamps

**Highly Susceptible:** Trout streams, threatened and endangered species, fish and wildlife refuges, calcareous fens, wild and scenic rivers

\* These designations apply to any project requiring NR 151 stormwater permitting and are based on wetland delineation field work and the professional opinion of R.A. Smith National, Inc. Final determination of wetland susceptibility rests with the WDNR. Some of the characteristics of a Highly Susceptible wetland may not be apparent to RASN due to confidential data or data beyond the scope of this delineation (i.e. rare species, high quality trout stream etc). Navigable waterways may also be subject to NR 151 protective area standards.

NE CORNER OF THE SE 1/4 OF SEC.  
1-5-21 MONUMENT REMOVED DUE TO  
CONSTRUCTION ON SOUTH 27TH STREET  
N: 343,381.08  
E: 2,549,157.81

SE CORNER OF THE SE 1/4  
OF SEC. 1-5-21 BRASS CAP  
IN CONCRETE MONUMENT  
N: 340,735.29  
E: 2,549,152.76



R: 2015\15C6984 Hobby Lobby CSM (Franklin W)\dwg\15C6984 Watermain Easement.dwg User: amertz

**JSD** Professional Services, Inc.  
 Engineers • Surveyors • Planners  
 MILWAUKEE REGIONAL OFFICE  
 N22 W22931 NANCY'S COURT SUITE 3  
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PROJECT:  
**HOBBY LOBBY CSM**

SHEET TITLE:  
**WATERMAIN  
 EASEMENT  
 EXHIBIT**

JSD PROJECT NUMBER:  
 15C6984  
 DRAWN BY: APM CHECKED BY: MJP  
 DATE:  
 01-15-16

SHEET NUMBER:  
**EX-01**

## LEGAL DESCRIPTION


Part of Lot 2 of Certified Survey Map No. \_\_\_\_\_ recorded \_\_\_\_\_ being a redivision of Lot 1 of Certified Survey Map No. 6543, recorded on August 7, 1998, Reel 43667, Images 1756 to 1758 inclusive, as Document No. 7578744, as corrected by Affidavit of Correction recorded as Document No. 7724864, part of the Northeast 1/4 and Northwest 1/4 of the Southeast 1/4 of Section 1, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin, bounded and described as follows:

Commencing at the northeast corner of the Southeast 1/4 of said Section 1; thence South 00°06'34" West along the east line of said Southeast 1/4, 401.22 feet; thence South 87°33'33" West, 84.53 feet to the west right of way line of South 27th Street - State Trunk Highway "241", the northeast corner of Lot 1 of Certified Survey Map No. \_\_\_\_\_; thence South 00°52'38" East along the east line of said Lot 1 and Lot 2 of Certified Survey Map No. \_\_\_\_\_, 258.33 feet; thence South 00°06'34" West along the east line of said Lot 2 of Certified Survey Map No. \_\_\_\_\_, 70.07 feet to the point of beginning

Thence continuing South 00°06'34" West along the east line of said of said Lot 2 of Certified Survey Map No. \_\_\_\_\_, 20.00 feet; thence North 89°49'34" West, 210.03 feet to the west line of said Lot 2; thence North 00°09'40" East along the west line of said Lot 2, 20.00 feet; thence South 89°49'34" East 210.00 feet to the east line of said Lot 2 of Certified Survey Map No. \_\_\_\_\_, and to the point of beginning.

Containing in all 4,204 square feet (0.097 acres) of land, more or less.

R: \2015\15C6984 Hobby Lobby CSM (Franklin WI)\dwg\15C6984 Watermain Easement.dwg User: amertz

 <p><b>JSD Professional Services, Inc.</b>                  ◦ Engineers ◦ Surveyors ◦ Planners</p> <p>MILWAUKEE REGIONAL OFFICE                  N22 W22931 NANCY'S COURT SUITE 3                  WAUKESHA, WISCONSIN 53186                  262.513.0666 PHONE   262.513.1232 FAX</p> <p><a href="http://www.jsdinc.com">www.jsdinc.com</a></p>	PROJECT: <b>HOBBY LOBBY CSM</b>	SHEET TITLE: <b>WATERMAIN                  EASEMENT                  EXHIBIT</b>	JSD PROJECT NUMBER: 15C6984	SHEET NUMBER: <b>EX-02</b>
			DRAWN BY: APM      CHECKED BY: MJP	
			DATE: 01-15-15	



**RECIPROCAL EASEMENT  
AGREEMENT**

Document Number

Document Title

**THIS RECIPROCAL EASEMENT AGREEMENT** (“**Agreement**”) is made and entered into as of the date set forth below by **WS FRANKLIN LLC**, an Illinois limited liability company, (“**Condominium Owner**”) and **WS FRANKLIN LLC**, an Illinois limited liability company, (“**Outparcel Owner**”). Condominium Owner and Outparcel Owner may be referred to herein together as the “**parties**” or each separately as a “**party**”.

**RECITALS**

**A. WHEREAS**, Condominium Owner is the fee owner of certain real property and improvements located in the City of Franklin, Milwaukee County, Wisconsin (the “**Condominium Property**”), as shown on the draft Condominium Plat attached hereto as Exhibit A (the “**Plat**”), and as legally described on Exhibit B attached hereto;

**B. WHEREAS**, Outparcel Owner is the fee owner of that certain real property located adjacent to and directly east of the Condominium Property in the City of Franklin, Milwaukee County, Wisconsin, as depicted on the Plat and described on Exhibit C attached hereto (the “**Outparcel**”); and

**C. WHEREAS**, the parties desire to establish for each other’s benefit certain easements and covenants that will accommodate the improvement, protection, development, maintenance and use of the Condominium Property, all improvements thereon, and the Outparcel.

**NOW, THEREFORE**, in consideration of the foregoing, and the covenants and declarations as hereinafter set forth, it is hereby agreed and declared as follows.

**1. Grant of Easements.**

**a. Vehicular and Pedestrian Passage and Parking.** The parties do hereby establish for the benefit of (i) each of the affiliates, guests, invitees, owners and lessees from time to time of parcels within the Condominium Property and within the Outparcel, and (ii) the customers, employees, and invitees of such owners and lessees, perpetual and nonexclusive easements appurtenant and running with the title to the Condominium Property and the Outparcel, for the purpose of providing parking and ingress and egress to and from such benefited lands over and across the driveways and parking areas located from time to time on the Condominium Property and on the Outparcel over and across all other driveways designed and constructed, from time to time, for such access over and across the Condominium Property and the Outparcel to various parcels within the Condominium Property and the Outparcel all as shown on Exhibit A. The parties hereby agree to exercise their respective rights associated with the easements granted herein in such a manner as to not unreasonably interfere with each other’s use and enjoyment on the

Recording Area

Name and Return Address:

Joseph E. Tierney IV  
Davis & Kuelthau, s.c.  
111 East Kilbourn Avenue  
Suite 1400  
Milwaukee, Wisconsin  
53202-6613

PIN: See Exhibit B and Exhibit C

remainder of the Condominium Property or the Outparcel, as applicable.

**b. Electrical Service Easement.** The parties do hereby establish for the benefit of each of the owners and lessees from time to time of parcels within the Condominium Property and within the Outparcel, perpetual and nonexclusive easements appurtenant and running with the title to the Condominium Property and the Outparcel, for the purpose of providing an electric service distribution easement to and from such benefited lands over, under, through and across the Condominium Property and the Outparcel as shown on Exhibit A. The parties hereby agree to exercise their respective rights associated with the easements granted herein in such a manner as to not unreasonably interfere with each other's use and enjoyment on the remainder of the Condominium Property or the Outparcel, as applicable.

**c. Gas Service Easement.** The parties do hereby establish for the benefit of each of the owners and lessees from time to time of parcels within the Condominium Property and within the Outparcel, perpetual and nonexclusive easements appurtenant and running with the title to the Condominium Property and the Outparcel, for the purpose of providing a gas service distribution easement to and from such benefited lands over, under, through and across the Condominium Property and the Outparcel as shown on Exhibit A. The parties hereby agree to exercise their respective rights associated with the easements granted herein in such a manner as to not unreasonably interfere with each other's use and enjoyment on the remainder of the Condominium Property or the Outparcel, as applicable.

**d. Water Service Easement.** The parties do hereby establish for the benefit of each of the owners and lessees from time to time of parcels within the Condominium Property and within the Outparcel, perpetual and nonexclusive easements appurtenant and running with the title to the Condominium Property and the Outparcel, for the purpose of providing a water service distribution easement to and from such benefited lands over, under, through and across the Condominium Property and the Outparcel as shown on Exhibit A. The parties hereby agree to exercise their respective rights associated with the easements granted herein in such a manner as to not unreasonably interfere with each other's use and enjoyment on the remainder of the Condominium Property or the Outparcel, as applicable. Notwithstanding the foregoing, Outparcel Owner acknowledges that (a) an existing lateral line that services the Condominium Property (the "**Existing Lateral Line**") is located on the Outparcel; and (b) upon request of Condominium Owner, Condominium Owner may relocate the Existing Lateral Line at its cost and expense provided that Condominium Owner will cooperate and coordinate with Outparcel Owner to reasonably minimize disruption of the business(es) or use(s) on the Outparcel, including, without limitation, carrying out work during non-business hours whenever reasonably possible. If Outparcel Owner desires to construct a building or structure on the Outparcel, Outparcel Owner may, with written notice and the consent of Condominium Owner, relocate the Existing Lateral Line to a location reasonably satisfactory to Condominium Owner and Outparcel Owner. Except for relocation of the Existing Lateral Line by Outparcel Owner as permitted in this Section 1.d., Condominium Owner shall be responsible for all maintenance, repair, replacement, and relocation of the Existing Lateral Line and all costs in connection therewith.

**e. Storm Water Runoff Easement.** The parties do hereby establish for the benefit of each of the owners and lessees from time to time of parcels within the Condominium Property and within the Outparcel, perpetual and nonexclusive easements appurtenant and running with the title to the Condominium Property and the Outparcel, for the purpose of providing a storm water runoff easement to and from such benefited lands over, under, through and across the Condominium Property and the Outparcel. The parties hereby agree to exercise their respective rights associated with the easements granted herein in such a manner as to not unreasonably interfere with each other's use and enjoyment on the remainder of the Condominium Property or the Outparcel, as applicable.

**f. Signage Easement.** Outparcel Owner hereby grants to Condominium Owner a

perpetual and exclusive easement appurtenant and running with the title to the Outparcel, to erect, post or display signage in a location of the Outparcel to be determined between Condominium Owner and Outparcel Owner in their reasonable discretion. Any signage erected and maintained by Condominium Owner under this Section 2.f. hereof shall be done in accordance with all ordinances, rules, laws, regulations and conditions applicable thereto. Notwithstanding the foregoing, in the event the parties jointly determine that Condominium Owner will not erect, post or display its own signage in a location of the Outparcel, then the parties shall share signage on a monument sign to be constructed and erected in a location of the Outparcel to be determined between Condominium Owner and Outparcel Owner in their reasonable discretion. The parties hereby agree to exercise their respective rights associated with the easements granted herein in such a manner as to not unreasonably interfere with each other's use and enjoyment on the remainder of the Condominium Property or the Outparcel, as applicable.

**2. Insurance, Liability and Indemnification.** Each of the parties hereto having rights with respect to an easement granted hereunder shall indemnify and hold the other party whose parcel is subject to the above easement harmless from and against all claims, liabilities and expenses (including reasonable attorneys' fees) (collectively "**Claims**") relating to accidents, injuries, loss, or damages of or to any person or property arising from negligent, intentional or willful acts or omissions of such party, its contractors, employees, agents, or others acting on behalf of such party. Notwithstanding the foregoing, Outparcel Owner specifically waives any and all Claims against Condominium Owner (actual or potential) arising out of any and all lost profits, corporate opportunities, or business interruption occurring by reason of or directly related to the existence or relocation of the Existing Lateral Line as set forth in Section 1.d. hereof. Each party shall procure and maintain general and/or comprehensive public liability and property damage insurance against claims for personal injury (including contractual liability arising under the indemnity contained in this paragraph), death, or property damage occurring upon such party's parcel, with single limit coverage of not less than an aggregate of Two Million Dollars (\$2,000,000.00) including umbrella coverage, if any, and naming each other as additional insureds.

**3. Term.** The term of this Agreement shall commence on the date that it is filed of record in the Office of the Register of Deeds for Milwaukee County, Wisconsin, and shall continue in perpetuity.

**4. Maintenance and Repair.**

**a. General.** Condominium Owner shall be responsible for maintaining, repairing, and replacing the improvements located in any easement areas on the Condominium Property, all as shown on Exhibit A, at Condominium Owner's cost and expense. Outparcel Owner shall be responsible for maintaining, repairing, and replacing any improvements located in any easement areas on the Outparcel, all as shown on Exhibit A, at Outparcel Owner's cost and expense. Notwithstanding the foregoing, the parties shall equally share the costs and expenses incurred in maintaining, repairing, and replacing the shared driveways and parking areas on the Outparcel and Condominium Property as shown on Exhibit A.

**b. Self-Help Rights.** In the event Condominium Owner and/or Outparcel Owner fails to maintain, repair, and/or replace the improvements including, without limitation, curbs, driveways, parking areas, landscaping, utility lines, sidewalks, and other related improvements in easement areas as required under Section 4.a. hereof, then the other party shall have the right, but not the obligation, to cause such maintenance, repair, and/or replacement to be performed; provided, however, that party that fails to perform the maintenance, repair, or replacement obligations under Section 4.a. shall reimburse other party for all costs and expenses actually incurred in connection with such self-help maintenance, repair, and/or replacement.

**c. Audit Rights.** In the event either party invokes any self-help rights under Section 4.b. hereof, then the reimbursing party shall be allowed to audit copies of receipts or invoices for any

reimbursed costs and expenses. Within seven (7) business days of the requesting party's written request, the party that invoked its self-help rights under Section 4.b. shall provide copies of receipts or invoices for maintenance, repair, and/or replacement to the requesting party. Electronic delivery of copies of receipts or invoices required under this Section 4.c. shall be an acceptable method of delivery.

**5. Covenants Running With the Land.** The easements, covenants, restrictions, and agreements provided for herein shall be effective upon the date hereof, shall run with the title to the Condominium Property and to the Outparcel, and shall constitute reciprocal benefits to, and burdens upon, the Condominium Property and the Outparcel. The easements, covenants, restrictions, agreements, benefits and obligations provided for herein shall be binding upon, and shall inure to, and be binding upon, the parties hereto, their successors, successors-in-title, assigns and lessees.

**6. No Dedication to Public Use.** This instrument is not intended, and shall not be construed, to dedicate the Condominium Property, the Outparcel or any portion thereof, to the general public, nor shall this instrument be construed to restrict the use or development of the Condominium Property or the Outparcel in any way except as expressly provided herein. No person other than a party hereto and their successors and assigns in title to the property affected hereby shall have any rights hereunder either as a third party beneficiary or otherwise.

**7. Amendment.** Except as otherwise provided herein, this Agreement may be amended only by the written consent of all of the owners of the Condominium Property and the Outparcel; provided, however, that as long as Condominium Owner owns any parcel within the Condominium Property or the Outparcel, Condominium Owner may amend this Agreement in its sole discretion without the written consent of any other party.

**8. Notices.** All notices required or authorized under this Agreement shall be sent by certified United States mail, return receipt requested, postage prepaid, or by a nationally recognized overnight courier, (such as Federal Express or UPS) to the appropriate addresses set forth in this Section 8, and shall be deemed given four (4) days after being placed in the mail or on the day after being deposited with an overnight courier until either party gives written notice of a change of address to the other.

If to Condominium Owner:

WS Franklin LLC  
Attention: Mr. Victor Michele  
935 West Chestnut, Suite 600  
Chicago, Illinois 60642  
Facsimile: (312) 226-8900  
Email: [VMichel@wolcottgroup.net](mailto:VMichel@wolcottgroup.net)

If to Outparcel Owner:

WS Franklin LLC  
Attention: Mr. Victor Michele  
935 West Chestnut, Suite 600  
Chicago, Illinois 60642  
Facsimile: (312) 226-8900  
Email: [VMichel@wolcottgroup.net](mailto:VMichel@wolcottgroup.net)

With a copy to:

Davis & Kuelthau, s.c.  
Attention: Joseph E. Tierney IV, Esq.  
111 E. Kilbourn Avenue, Suite 1400  
Milwaukee, WI 53212  
Facsimile: (414) 278-3671  
Email: [jtierney@dkattorneys.com](mailto:jtierney@dkattorneys.com)

Davis & Kuelthau, s.c.  
Attention: Joseph E. Tierney IV, Esq.  
111 E. Kilbourn Avenue, Suite 1400  
Milwaukee, WI 53212  
Facsimile: (414) 278-3671  
Email: [jtierney@dkattorneys.com](mailto:jtierney@dkattorneys.com)

**9. Attorneys' Fees and Costs.** In the event that any dispute is litigated between the parties in connection with this Agreement, the prevailing party shall be entitled to recover from the non-prevailing



party all of its reasonable attorneys' fees, costs and expenses at both trial and appellate levels.

**10. Governing Law.** The validity of this Agreement and all of its terms and provisions, as well as the rights and duties of the parties hereunder, shall be interpreted and construed in accordance with the laws of the State of Wisconsin.

**11. Severability.** If any of the provisions of this Agreement or the application thereof to any person or situation shall be held invalid or unenforceable to any extent, the remainder of this Agreement and the application of such provisions to persons or situations other than those as to which it shall have been held invalid or unenforceable shall not be affected thereby and shall continue to be valid and enforceable to the fullest extent permitted by law.

**12. Additional Acts.** Both parties hereby agree to promptly perform, execute and deliver or cause to be promptly performed, executed or delivered any and all further acts, instruments or assurances as may be reasonably be required to effectuate this Agreement.

**13. Execution in Counterparts.** This Agreement may be executed in two (2) or more counterparts, each of which shall be an original, but all of which shall constitute one (1) and the same instrument.

*[Rest of page intentionally left blank. Signatures to follow on next page.]*

IN WITNESS WHEREOF, the parties have executed this Agreement as of the \_\_ day of \_\_\_\_\_, 2016.

**Condominium Owner:**

**WS FRANKLIN LLC,**  
an Illinois limited liability company

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 ) SS  
\_\_\_\_\_ COUNTY )

Personally came before me this \_\_\_\_ day of \_\_\_\_\_, 2016, the above-named \_\_\_\_\_, the \_\_\_\_\_ of WS Franklin LLC, an Illinois limited liability company, and acknowledged that he executed the foregoing instrument as the deed of said corporation, by its authority.

\_\_\_\_\_  
\*  
Notary Public, State of \_\_\_\_\_  
My Commission expires \_\_\_\_\_.

*[Rest of page intentionally left blank. Signatures on next page.]*

This Document was drafted by,  
and should be returned to:

Joseph E. Tierney IV, Esq.  
Davis & Kuelthau, s.c.  
111 East Kilbourn Avenue  
Suite 1400  
Milwaukee, Wisconsin 53202-6613



**CONSENT OF CONDOMINIUM PROPERTY MORTGAGEE**

Heartland Bank and Trust Company, an Illinois banking corporation, the holder of certain **[insert name of mortgage(s)]** that encumber the Condominium Property ("Condominium Property Mortgagee"), hereby consents to the easements granted in the above-stated Agreement (the " Agreement ") and acknowledges that the rights of Condominium Property Mortgagee in, to or under any mortgage, are hereby subjected and subordinated and shall remain in all respects and for all purposes subject, subordinate and junior to the Agreement, and to the rights and interest of the from time to time holders of the Agreement, as fully and with the same effect as if the Agreement had been duly executed, acknowledged and recorded prior to the execution of any mortgage by Condominium Property Mortgagee, or its predecessors in interest.

**CONDOMINIUM PROPERTY MORTGAGEE:**

Heartland Bank and Trust Company,  
an Illinois banking corporation

By:\_\_\_\_\_

Name:\_\_\_\_\_

Title:\_\_\_\_\_

STATE OF \_\_\_\_\_ )  
  ) SS  
\_\_\_\_\_ COUNTY                                  )

Personally came before me this \_\_\_\_ day of \_\_\_\_\_, 2016, the above-named \_\_\_\_\_, the \_\_\_\_\_ of Heartland Bank and Trust Company and acknowledged that he executed the foregoing instrument as the deed of said \_\_\_\_\_, by its authority.

\_\_\_\_\_  
\*  
Notary Public, State of \_\_\_\_\_  
My Commission expires \_\_\_\_\_.

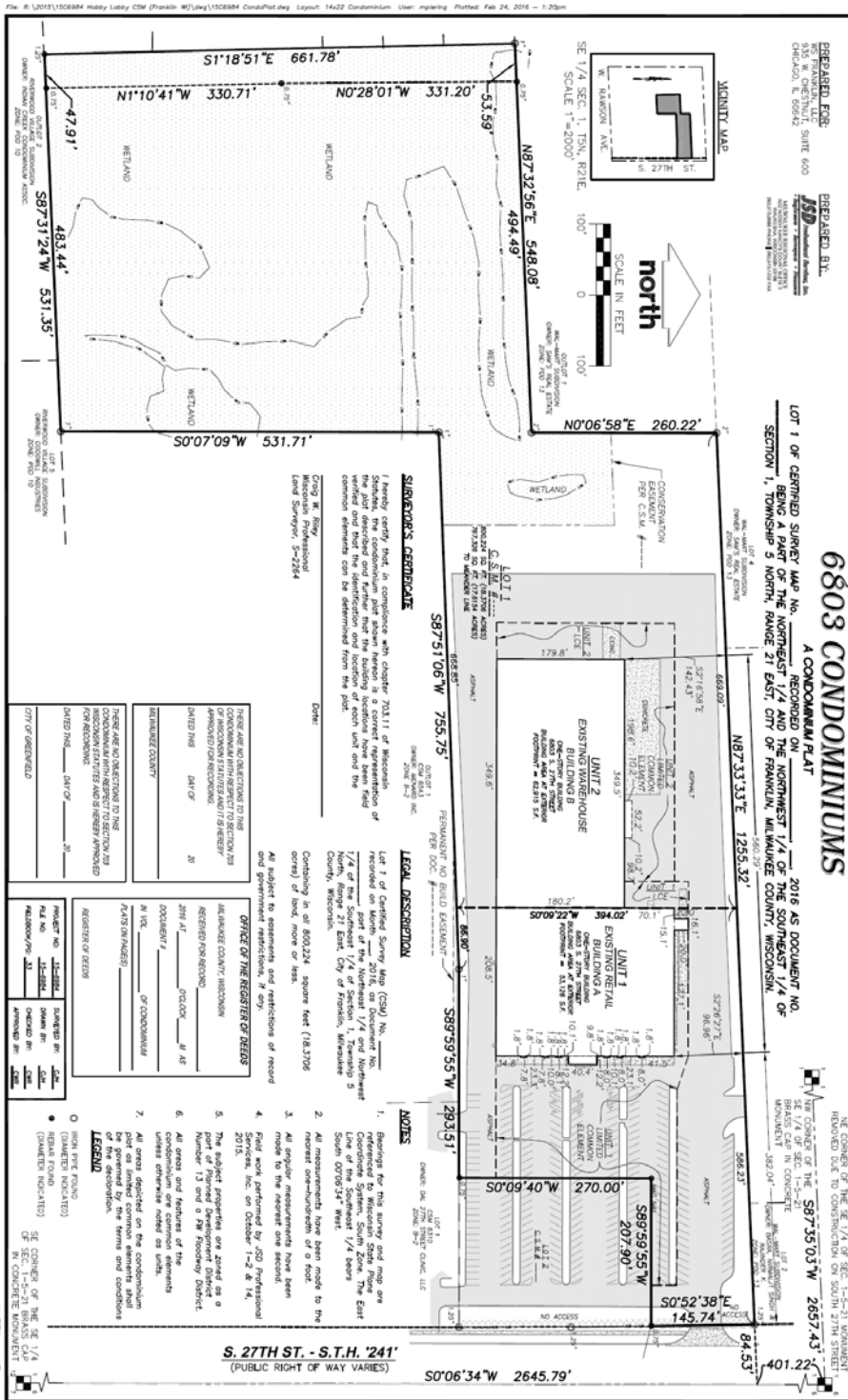
[Rest of page intentionally left blank. Signatures on next page.]





# EXHIBIT A

## Plat



PREPARED FOR:  
M.S. FRANKLIN, LLC  
1500 W. WASHINGTON AVE.  
CHICAGO, IL 60642

PREPARED BY:  
**ISD**  
INDEPENDENT SURVEYING & DESIGN  
1500 W. WASHINGTON AVE.  
CHICAGO, IL 60642

LOT 1 OF CERTIFIED SURVEY MAP NO. 2016 AS DOCUMENT NO. 2657.43  
A CONDOMINIUM PLAT  
RECORDED ON \_\_\_\_\_ BEING A PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 1, TOWNSHIP 5 NORTH, RANGE 21 EAST, CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN.

THE CORNER OF THE SE 1/4 OF SEC. 1-2-21 MONUMENT  
REMOVED DUE TO CONSTRUCTION OF SECTION 1  
SE 1/4 OF SEC. 1-2-21  
MONUMENT  
382.04' - 382.04' - 382.04' - 382.04'

### SURVEYOR'S CERTIFICATE

I hereby certify that, in compliance with chapter 703.11 of Wisconsin Statutes, the plat described and further that the building locations have been field verified and that the identification and location of each unit and the common elements can be determined from the plat.

DATE: \_\_\_\_\_  
CANDY M. ROY  
Wisconsin Professional Land Surveyor - S-2264

### LEGAL DESCRIPTION

Lot 1 of Certified Survey Map No. 2016, as Document No. 2657.43, is a portion of the Northwest 1/4 of the Northwest 1/4 of Section 1, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin.

Containing an of 800,324 square feet (18,3706 acres) of land, more or less.

All subject to easements and restrictions of record and governmental restrictions, if any.

### OFFICE OF THE REGISTER OF DEEDS

MILWAUKEE COUNTY, WISCONSIN  
REGISTERED FOR RECORD  
DATE: \_\_\_\_\_  
HOURS: \_\_\_\_\_  
FEE: \_\_\_\_\_

### REGISTER OF DEEDS

REGISTER NO. \_\_\_\_\_  
FILE NO. \_\_\_\_\_  
RECORDED ON \_\_\_\_\_  
APPROVED BY \_\_\_\_\_

### NOTES

1. Bearings for this survey and map are referenced to Wisconsin State Plane East of the Southern 1/4 of Section 1, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin.
2. All measurements have been made to the nearest one-hundredth of a foot.
3. All angular measurements have been made to the nearest one second.
4. Field work performed by JSD Professional Services, Inc. on October 1-2 & 14, 2015.
5. The subject properties are zoned as a Residential Single-Family District (RS-1) under Ordinance No. 13 and a Public Floating District (PFD) under Ordinance No. 14.
6. All areas and features of the condominium are common elements unless otherwise noted on this plat.
7. All areas depicted on the condominium plat are limited common elements and are not subject to the same rules and conditions of the declaration.

### LEGEND

- BORN PILE FOUND (SQUARE INDICATED)
- BORN PILE FOUND (CIRCLE INDICATED)
- SE CORNER OF THE SE 1/4 OF SECTION 1-2-21 MONUMENT IN CONCRETE

EXHIBIT B

Legal Description of Condominium Property

Being a part of Certified Survey Map No. 6543, recorded on August 7, 1998, Reel 43667, Images 1756 to 1758 inclusive, as Document No. 7578744, as corrected by Affidavit of Correction recorded as Document No. 7724864, part of the Northeast 1/4 and Northwest 1/4 of the Southeast 1/4 of Section 1, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin, bounded and described as follows:

Commencing at the northeast corner of the Southeast 1/4 of said Section 1; thence South 00°06'34" West along the east line of said Southeast 1/4, 401.22 feet; thence South 87°33'33" West, 84.53 feet to the west right of way line of South 27th Street - State Trunk Highway "241" and the northeast corner of Lot 1 of CSM 6543 and the point of beginning;

Thence South 00°52'38" East along the west right of way line of South 27th Street and the east line of said Lot 1 of CSM No. 6543, 145.74 feet; thence South 89°59'55" West, 207.90 feet; thence South 00°09'40" West, 270.00 feet to the south boundary line of said Lot 1; the following 8 courses follow the boundary of said Lot 1; thence South 89°59'55" West, 293.51 feet; thence South 87°51'06" West, 755.75 feet; thence South 00°07'09" West, 531.71 feet; thence South 87°31'24" West, 531.35 feet; thence North 01°18'51" West, 661.78 feet; thence North 87°32'56" East, 548.08 feet; thence North 00°06'58" East, 260.22 feet; thence North 87°33'33" East, 1255.32 feet to the aforesaid west right of way line of South 27th Street - State Trunk Highway "241" and the point of beginning.

Containing in all 800,224 square feet (18.3706 acres) of land, more or less.

All subject to easements and restrictions of record and government restrictions, if any.

EXHIBIT C

Legal Description of Outparcel

Being a part of Certified Survey Map No. 6543, recorded on August 7, 1998, Reel 43667, Images 1756 to 1758 inclusive, as Document No. 7578744, as corrected by Affidavit of Correction recorded as Document No. 7724864, part of the Northeast 1/4 and Northwest 1/4 of the Southeast 1/4 of Section 1, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin, bounded and described as follows:

Commencing at the northeast corner of the Southeast 1/4 of said Section 1; thence South 00°06'34" West along the east line of said Southeast 1/4, 401.22 feet; thence South 87°33'33" West, 84.53 feet to the west right of way line of South 27th Street - State Trunk Highway "241" and the northeast corner of Lot 1 of CSM 6543; thence South 00°52'38" East along the west right of way line of South 27th Street and the east line of said Lot 1 of CSM No. 6543, 145.74 feet to the point of beginning;

Thence continuing South 00°52'38" East along the west right of way line of South 27th Street and the east line of said Lot 1 of CSM No. 6543, 112.60 feet; thence South 00°06'34" West along the west right of way line of South 27th Street and the east line of said Lot 1 of CSM No. 6543, 157.41 feet to the south boundary line of said Lot 1; thence South 89°59'55" West along said south line, 210.09 feet; thence North 00°09'40" East, 270.00 feet; thence North 89°59'55" East, 207.90 feet to the point of beginning.

Containing in all 56,582 square feet (1.2989 acres) of land, more or less.

All subject to easements and restrictions of record and government restrictions, if any.