WETLAND DETERMINATION DATA FORM Great Plains Region

Applicant		.3R									Date:	09/25/14 Dennington	
Applicant: Investigators					Subregion (MLRA or LRR): MLRA 56						County: State:	Pennington MN	
Soil Unit:	I44A		NWI Classification:										
Landform: Slope (%):	ShoulderLocal Relief: LV16 - 25%Latitude: 48.0390085Longitude: -96							2495000	Datum:		Sample Point:	u-153n43w29-j1	
		ditions on the sit							Datum. ✓ Yes	□ No	Section:		
Are Vegetation		□, or Hydrology					1	e normal circum			Township:		
Are Vegetatio	on 🗆 Soil	□, or Hydrology	•	•				☑ Yes	□ No		Range:	Dir:	
SUMMARY C													
Hydrophytic Vegetation Present?NoWetland Hydrology Present?No						Hydric Soils Present							
Remarks:				-	ulder, upsic	pe from a	hardwoo	d swamp.	15 1115 34	nping Poin			
Remarks: The upland sample point is located on a shoulder, upslope from a hardwood swamp.													
HYDROLOGY													
_		ators (Check al	II that appl	ly; Min	imum of or	ne primary	or two se	econdary requir	red):				
Primary:	A1 - Surface W	ator				B11 - Salt (Cruet			Secondary:	B6 - Surface S	coil Cracks	
						B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturation					C1 - Hydro					B10 - Drainage		
	B1 - Water Mar B2 - Sediment					C2 - Dry Se C3 - Oxidiz		pheres on Living	Roots (not till	€ □	C3 - Oxidized C8 - Crayfish E	Rhizospheres on Living Roots (tilled) Burrows	
	B3 - Drift Depos	sits				C4 - Prese	nce of Re	duced Iron			C9 - Saturation	n Visible on Aerial Imagery	
	B4 - Algal Mat of B5 - Iron Depos					C7 - Thin M		ace			D2 - Geomorp D5 - FAC-Neut		
		Visible on Aerial In	magery			Other (Exp	iairi)					aved Hummocks (LRR F)	
	B9 - Water-Sta	ined Leaves											
Field Observ	vations												
Surface Wate		∕es □	Г	Depth:		(in.)							
Water Table		′es □		Depth:		- (in.) (in.)			Wetland H	lydrology l	Present?	Ν	
Saturation Pr		′es □	Γ	Depth:		(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Remarks: No primary or secondary hydrological indicators were observed.													
SOILS													
		e to the depth no											
		(Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)											
		Matrix					Mottle	es					
Depth (In.)		Color (Moist)		%	Color (Moist)	Mottle %	es Type	Location	Texture		Remarks	
0-12	Hue_10YR	Color (Moist) 2/1		100	Color (Moist)			Location	L		Remarks	
		Color (Moist)			Color (Moist)			Location	Texture L FSL		Remarks	
0-12	Hue_10YR	Color (Moist) 2/1		100	Color (Moist)			Location	L		Remarks	
0-12	Hue_10YR	Color (Moist) 2/1		100	Color (Moist)			Location	L		Remarks	
0-12	Hue_10YR	Color (Moist) 2/1		100	Color (Moist)			Location	L		Remarks	
0-12 12-21	Hue_10YR	Color (Moist) 2/1 3/2		100 100	Color (%		Location	L FSL			
0-12 12-21 NRCS Hydr	Hue_10YR Hue_2.5Y	Color (Moist) 2/1 3/2		100 100	cators are	not present	%	Туре		L FSL	or Problematic		
0-12 12-21 NRCS Hydr	Hue_10YR Hue_2.5Y ic Soil Field I	Color (Moist) 2/1 3/2 ndicators (cl		100 100	cators are S5 - Sandy F	not present	%	Туре		L FSL Indicators f	luck (LRR I, J)	<u>c Soils¹</u>	
0-12 12-21 NRCS Hydr	Hue_10YR Hue_2.5Y	Color (Moist) 2/1 3/2 ndicators (cl		100 100 e if indi	cators are	not present Redox	%	Туре		L FSL Indicators f A9 - 1 cm M A16 - Coast		<u>c Soils¹</u> (LRR F, G, H)	
0-12 12-21 NRCS Hydr	Hue_10YR Hue_2.5Y ic Soil Field I A1- Histosol A2 - Histic Epip A3 - Black Histi A4 - Hydrogen	Color (Moist) 2/1 3/2 ndicators (cl edon c Sulfide		100 100	cators are S5 - Sandy F S6 - Stripped F1 - Loamy f F2 - Loamy (not present Redox Matrix Mucky Minera Gleyed Matrix	% t):	Туре		L FSL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	<u>c Soils¹</u> (LRR F, G, H)	
0-12 12-21 NRCS Hydr	Hue_10YR Hue_2.5Y ic Soil Field I A1- Histosol A2 - Histic Epip A3 - Black Histi A4 - Hydrogen A5 - Stratified L	Color (Moist) 2/1 3/2 ndicators (cl edon c Sulfide .ayers (LRR F)		100 100	cators are S5 - Sandy F S6 - Stripped F1 - Loamy f F2 - Loamy (F3 - Depleted	not present Redox Matrix Mucky Minera Gleyed Matrix d Matrix	% t):	Туре		L FSL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ced Vertic	<u>c Soils¹</u> (LRR F, G, H)	
0-12 12-21 NRCS Hydr	Hue_10YR Hue_2.5Y ic Soil Field I A1- Histosol A2 - Histic Epip A3 - Black Histi A4 - Hydrogen A5 - Stratified L A9 - 1 cm Muck A11 - Depleted	Color (Moist) 2/1 3/2 ndicators (cl edon c Sulfide ayers (LRR F) c (LRR FGH) Below Dark Surfac	heck here	100 100	cators are S5 - Sandy F S6 - Stripped F1 - Loamy f F2 - Loamy (Redox Matrix Mucky Minera Gleyed Matrix d Matrix Dark Surface	% t):	Туре		L FSL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	<mark>C Soils¹</mark> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73)	
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0-12 12-21 NRCS Hydr	Hue_10YR Hue_2.5Y Hue_2.5Y ic Soil Field I A1- Histosol A2 - Histic Epip A3 - Black Histi A4 - Hydrogen A5 - Stratified L A9 - 1 cm Muck A11 - Depleted A12 - Thick Dai S1 - Sandy Muc	Color (Moist) 2/1 3/2 ndicators (cl edon c Sulfide ayers (LRR F) k (LRR FGH) Below Dark Surfac rk Surface cky Mineral	ce	100 100 e if indi	Cators are S5 - Sandy F S6 - Stripped F1 - Loamy f F2 - Loamy f F3 - Depleted F6 - Redox f F7 - Depleted F8 - Redox f	not present Redox Matrix Mucky Minera Gleyed Matrix d Matrix Dark Surface d Dark Surfa Depressions	% t):	Туре		L FSL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ced Vertic Parent Material Shallow Dark S	<mark>C Soils¹</mark> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-153n43w29-j1
VEGETATIO	· · ·	re non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) <u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.	Tilia americana	<u>30</u>	Y	FACU	
2.	Ostrya virginiana	15	Y	FACU	Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.		10	· ·	17100	
4.					Total Number of Dominant Species Across All Strata: 4 (B)
5.	J				(
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. $0 x 1 = 0$
	Total Cover =	45			FACW spp. 0 $x 2 = 0$
					OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 70 x 4 = 280
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 70 x 4 = 280
1.	Ostrya virginiana	25	Y	FACU	UPL spp. 90 X 5 = 450
2.					
3.					Total <u>160</u> (A) <u>730</u> (B)
4.					
5.					Prevalence Index = $B/A = 4.563$
6.					
7.					Hydrophytic Vegetation Indicators
<u>8.</u> 9.					Hydrophytic Vegetation Indicators:
10.					Rapid Test for Hydrophytic Vegetation Dominance Test is > 50%
10.	 Total Cover =	25			$\frac{1}{2} = \frac{1}{2} $
		20			
Harb Stratum (Plot size: 5 ft. radius)				Morphological Adaptations (Explain) *
1.	Carex pensylvanica	90	Y	NI	Problem Hydrophytic Vegetation (Explain) *
2.					* Indicators of hydric soil and wetland hydrology must be
3.	J				present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	90	_	_	
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.	Total Cover =	0			
Remarks:	The upland sample point is dominated by ba		anwood or	d Penney	lvanja sedge
itemarks.	ווום ער איז	133990000, 110		iu rennsy	
	Domarka				
Additional F					