WETLAND DETERMINATION DATA FORM Great Plains Region

	La									Date: 09/26/14
Project/Site: Applicant:		nbridge								County: Pennington
Investigators:		AJ/BJC	————		Subregio		or LRR):	MLRA 56		State: MN
Soil Unit:	. I20A	AJ/DJC	I			•	Classification:			
Landform:	Depression				ocal Relief:		Classification			Sample Point: w-153n44w3-f1
Slope (%):	0 - 2%		Latitude: 48.1			-96.286	661	Datum:		
	ydrologic cond	litions on the sit						Datum:	□ No	
	•		• •		al (Ir no, ex					Section:
Are Vegetatio		□, or Hydrology	•	•		Ale	e normal circun	•	esent?	Township:
Are Vegetatio		⊐, or Hydrology	Daturally pr	oblematic?			⊠ Yes	□ No		Range: Dir:
SUMMARY C										
	Vegetation Pres		Yes						Is Present?	
Wetland Hyd	rology Present?		Yes							nt Within A Wetland? Yes
Remarks:	A forested slow	ugh dominated	by large cotto	onwood trees	. The wetl	and is an	thropogenic, p	robably dug	at one poir	nt to drain the field to the north. All
	parameters of	wetland condit	ions are met.							
HYDROLOG	Y									
		tors (Chock al	l that apply: N	linimum of o	no primory	or two or	ocondary roqui	rod).		
-	drology Indica	tors (Check al	ir that apply, iv		ne primary	or two se	econdary requi	ea):	Secondary	
Primary:	A1 - Surface Wa	tor		п	B11 - Salt	Crust			Secondary:	<u>·</u> B6 - Surface Soil Cracks
	A2 - High Water					atic Fauna				B8 - Sparsely Vegetated Concave Surface
	A3 - Saturation				C1 - Hydro					B10 - Drainage Patterns
	B1 - Water Mark	S				Season Wa				C3 - Oxidized Rhizospheres on Living Roots (tille
	B2 - Sediment D	eposits					pheres on Living	Roots (not till	€ □	C8 - Crayfish Burrows
	B3 - Drift Deposi					ence of Re				C9 - Saturation Visible on Aerial Imagery
	B4 - Algal Mat or					Muck Surfa	ace		\checkmark	D2 - Geomorphic Position
	B5 - Iron Deposit				Other (Exp	olain)				D5 - FAC-Neutral Test
	B7 - Inundation N B9 - Water-Stain	/isible on Aerial In	nagery							D7 - Frost-Heaved Hummocks (LRR F)
	D9 - Waler-Stain	leu Leaves								
	- 4									
Field Observ										
Surface Wate	er Present? Ye	es 🗆	Dept	h:	(in.)			Wetland H	łydrology	Present? Y
Water Table	Present? Ye	es 🗆	Dept	h:	(in.)			Wettand	iyarology	
Saturation Pr	resent? Ye	es 🗆	Dept	h:	(in.)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
Remarks:	Remarks: The wetland is in an obvious depression and there are water-stained leaves in the bottom of the slough. Indicators of wetland hydrology are present.									
SOUS										
SOILS	ntion (Decoribo	to the depth p	and a dag	mont the ind	iootor or o	opfirm the	a abaanaa of in	diastora)		
Profile Descri	ption (Describe									
Profile Descri	ption (Describe htration, D=Depletio									
Profile Descri		n, RM=Reduced M				ation: PL=Po	ore Lining, M=Matr			
Profile Descri (Type: C=Concen	htration, D=Depletio	n, RM=Reduced M Matrix	latrix, CS=Cover	ed/Coated Sand	Grains; Loca	ation: PL=Po Mottle	ore Lining, M=Matr	ix)	Toyturo	Domorko
Profile Descri (Type: C=Concen Depth (In.)	htration, D=Depletio	n, RM=Reduced M Matrix olor (Moist)	1atrix, CS=Cover	ed/Coated Sand		ation: PL=Po	ore Lining, M=Matr		Texture	Remarks
Profile Descri (Type: C=Concen Depth (In.) 0-5	htration, D=Depletio	Matrix Matrix olor (Moist) 2/1	1atrix, CS=Cover % 100	ed/Coated Sand	Grains; Loca	Mottle	ore Lining, M=Matr es Type	Location	Texture CL	Remarks
Profile Descri (Type: C=Concen Depth (In.) 0-5 5-8	Hue_2.5Y	n, RM=Reduced M Matrix olor (Moist) 2/1 7/2	Atrix, CS=Cover % 100 90	Color Hue_2.5Y	Grains; Loca (Moist) (6/8	Mottle	es Type C	Location	Texture CL C	Remarks CaCO3 concentrated in this layer
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Profile Descri (Type: C=Concen Depth (In.) 0-5 5-8 8-18	Hue_10YR Hue_2.5Y Hue_2.5Y	n, RM=Reduced M Matrix olor (Moist) 2/1 7/2 4/1	Matrix, CS=Cover % 100 90 95	Ed/Coated Sand Color Hue_2.5Y Hue_10YF	Grains; Loca	Mottle Mottle 10 5	ore Lining, M=Matr es Type C C	Location	Texture CL C C	
Profile Descri (Type: C=Concen Depth (In.) 0-5 5-8 8-18	Hue_2.5Y	n, RM=Reduced M Matrix olor (Moist) 2/1 7/2 4/1	Atrix, CS=Cover % 100 90	Ed/Coated Sand Color Hue_2.5Y Hue_10YF	Grains; Loca	Mottle Mottle 10 5	es Type C	Location	CL C C	CaCO3 concentrated in this layer
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Profile Descri (Type: C=Concern Depth (In.) 0-5 5-8 8-18 NRCS Hydr	A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck A11 - Depleted E A12 - Thick Dark S1 - Sandy Muck S2 - 2.5 cm Muc	Matrix Olor (Moist) 2/1 7/2 4/1 dicators (cl dicators (cl dicators (cl don ulfide yers (LRR F) (LRR FGH) Below Dark Surface sy Mineral ky Peat or Peat (L	Atrix, CS=Cover % 10(90 95 heck here if ir	Adicators are S5 - Sandy F S5 - Sandy F S6 - Stripper F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	Grains; Loca (Moist) 6/8 3/6 Not presen Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	ation: PL=Po Mottle % 10 5 nt):	Ere Lining, M=Matr Es Type C C □	ix) Location M M I	CL C C C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	CaCO3 concentrated in this layer CaCO3 concentrated in this layer for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material / Shallow Dark Surface ain in Remarks)
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Profile Descri (Type: C=Concern Depth (In.) 0-5 5-8 8-18 NRCS Hydr	itration, D=Depletion Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y ic Soil Field In A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck A11 - Depleted E A12 - Thick Dark S1 - Sandy Muck S2 - 2.5 cm Muck S3 - 5 cm Mucky S4 - Sandy Gleye	Matrix olor (Moist) 2/1 7/2 4/1 dicators (cl don ulfide yers (LRR F) (LRR FGH) Below Dark Surface sy Mineral ky Peat or Peat (LR Peat or Peat (LR	Atrix, CS=Cover % 10(90 95 heck here if ir	Adicators are S5 - Sandy F S5 - Sandy F S6 - Stripper F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	Grains; Loca (Moist) 6/8 3/6 Not presen Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Matrix Dark Surface d Dark Surface d Dark Surface	ation: PL=Po Mottle % 10 5 nt):	Pre Lining, M=Matr	ix) Location M M I	CL C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	CaCO3 concentrated in this layer CaCO3 concentrated in this layer for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material / Shallow Dark Surface ain in Remarks)
Profile Descri (Type: C=Concern 0-5 5-8 8-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck A11 - Depleted E A12 - Thick Dark S1 - Sandy Muck S2 - 2.5 cm Muc S3 - 5 cm Mucky S4 - Sandy Gleye	Matrix olor (Moist) 2/1 7/2 4/1 dicators (cf don ulfide yers (LRR F) (LRR FGH) Below Dark Surface sy Mineral ky Peat or Peat (Lr ed Matrix	Atrix, CS=Cover % 100 90 95 heck here if ir	Depth	Grains; Loca (Moist) (Moist) 7 6/8 3/6 3/6 Not presen Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface ed Dark Surface Plains Depressions Plains Depressions	Ation: PL=Po Mottle % 10 5 nt): ral ix e ace ssions (ML	Pre Lining, M=Matr PS Type C C C RA 72, 73 of LRF Hydric So	ix) Location M M M I I I I I I I I I I I I I I I I	CL C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	CaCO3 concentrated in this layer CaCO3 concentrated in this layer for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material / Shallow Dark Surface ain in Remarks) hydrophytic vegetation and wetland hydrology must be prese ed or problematic.
Profile Descri (Type: C=Concern 0-5 5-8 8-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Itration, D=Depletion Itration, D=Depletion Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y Itration, D=Depletion ic Soil Field In A1- Histosol A2 - Histic Epipe A3 - Black Histic A4 - Hydrogen S A5 - Stratified La A9 - 1 cm Muck A11 - Depleted E A12 - Thick Dark S1 - Sandy Muck S2 - 2.5 cm Muc S3 - 5 cm Mucky S4 - Sandy Gleye Type: The soil has a	Matrix olor (Moist) 2/1 7/2 4/1 dicators (cf don ulfide yers (LRR F) (LRR FGH) Below Dark Surface sy Mineral ky Peat or Peat (Lr ed Matrix	Atrix, CS=Cover % 100 90 95 heck here if ir heck here if ir c ke [] c kr G, H) R F)	ed/Coated Sand Color Hue_2.5Y Hue_10YF Hue_10YF S5 - Sandy F S5 - Sandy F S6 - Stripped F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F F8 - Redox F	Grains; Loca (Moist) (Moist) (6/8 3/6 3/6 not presen Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Matrix Dark Surface d Dark Surfa	Ation: PL=Po Mottle % 10 5 nt): ral ix e ace ssions (ML	Pre Lining, M=Matr PS Type C C C RA 72, 73 of LRF Hydric So	ix) Location M M M I I I I I I I I I I I I I I I I	CL C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	CaCO3 concentrated in this layer CaCO3 concentrated in this layer for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material / Shallow Dark Surface ain in Remarks)

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-153n44w3-f1				
VEGETATIO		re non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)				Deminence Test Werkehest				
4	Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Populus deltoides	80	Y	FAC					
2.					Number of Dominant Species that are OBL, FACW, or FAC: <u>5</u> (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 5 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 22 x 1 = 22				
		80			FACW spp. 45 x 2 = 90				
					FAC spp. 90 x $3 = 270$				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FAC spp. 90 $x 3 =$ 270 FACU spp. 0 $x 4 =$ 0				
1.	Salix eriocephala	20	Y	FACW	$UPL \text{ spp.} 0 \qquad \text{ x } 5 = 0$				
2.	Populus tremuloides	10	Y	FAC					
3.	Cornus alba	5	N	FACW	Total 157 (A) 382 (B)				
4.	Salix petiolaris	2	N	OBL					
5.	Salix petiolaris	۷	IN	ODL	Prevalence Index = B/A = 2.433				
					Frevalence findex = B/A = 2.433				
6.									
7.					I hadron hatio Monototion Indicatorea				
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
	Total Cover =	37			X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Carex pellita	20	Y	OBL					
2.		20	Y	FACW	* Indicators of hydric soil and wetland hydrology must be				
3.					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.									
					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
9.					Saping/Sinub - Woody plants less than 5 in. 2011, 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 =	40							
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
5.									
4.	<u>,</u>								
т.	Total Cover =	0							
Remarks:			with a chr	ub lavor o	f willows and an herbaceous layer of woolly sedge and prairie cord grass. In other				
Nemarks.		-		un layel 0	a winews and an nerbaceous layer of woony sedge and praine cord grass. In other				
stretches, reed canary grass dominates the herbaceous layer.									
Additional Remarks:									