WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/17/14			
Applicant:										County:	Pennington			
Investigators: BEH/NTT				Subregion (MLRA or LRR): MLRA 56						State:	MN			
Soil Unit:	175A						Classification	:						
Landform:	Depression		40.4		cal Relief:		2244	<u> </u>		Sample Point	w-154n44w32-g4			
Slope (%):	0 - 2%	- 410 4b	Latitude: 48.		Longitude:			Datum:		-				
	-	nditions on the si			ar' (If no, exp	T		☑ Yes	□ No	Section:				
Are Vegetation		□, or Hydrology		-		Are	normal circun	•	esent?	Township:	5 .			
Are Vegetation ☐ Soil ☐, or Hydrology ☐aturally problematic? ☐ Yes ☐ No Range: Dir:														
SUMMARY O			\ <u></u>											
	drophytic Vegetation Present?			Yes			Hydric Soils Present?				Voc			
	Wetland Hydrology Present?				Yes			Is This Sampling Poin			etland? Yes			
Remarks:	The wetland	l is a willow-domi	inated excava	ted ditch with	a dense ur	nderstory	ot seage spea	cies.						
HYDROLOGY	Y													
Wetland Hy	drology Indi	cators (Check a	all that apply; N	linimum of on	e primary	or two se	econdary requi	red):						
Primary:		,	•				-	•	Secondary					
	A1 - Surface \				B11 - Salt (B6 - Surface S				
	A2 - High Wat A3 - Saturatio				B13 - Aqua		- 040"				Vegetated Concave Surface			
☑	B1 - Water Ma				C1 - Hydro					B10 - Drainag C3 - Oxidized	e Patterns Rhizospheres on Living Roots	(tilled)		
	B2 - Sediment						pheres on Living	Roots (not till	_	C8 - Crayfish		(tilled)		
	B3 - Drift Dep	osits			C4 - Prese			(1.00.00)	` _	-	n Visible on Aerial Imagery			
	B4 - Algal Mat	or Crust			C7 - Thin M		ice		✓	D2 - Geomorp	phic Position			
	B5 - Iron Depo				Other (Exp	lain)			☑	D5 - FAC-Neu				
		n Visible on Aerial II	magery							D7 - Frost-He	aved Hummocks (LRR F)			
✓	B9 - Water-St	ained Leaves												
Field Observ														
Field Observ		- · · _	D	-	/!.a. \									
Surface Water		Yes	Dep		_ (in.)			Wetland F	lvdrology	Present?	Υ			
			•		- ` ′			Water Table Present? Yes Depth: (in.)						
Saturation Pr	esent?	Yes ☑	Dep	L . L	/ i.a \									
<u></u>		162	Бер	h: <u>5</u>	_ (in.)									
Describe Reco	orded Data (s	tream gauge, mor	<u> </u>	-	<u> </u>	ections),	if available:							
Describe Reco		tream gauge, mor	nitoring well, a	erial photos, pr	evious insp			ound.						
			nitoring well, a	erial photos, pr	evious insp			ound.						
		tream gauge, mor	nitoring well, a	erial photos, pr	evious insp			ound.						
Remarks: SOILS Profile Descri	Water mark	tream gauge, mor s were observed be to the depth n	nitoring well, a	erial photos, proks; water-stain	evious insponed leaves	s are pre	sent on the groes	ndicators.)						
Remarks: SOILS Profile Descri	Water mark	tream gauge, mor s were observed	nitoring well, a	erial photos, proks; water-stain	evious insponed leaves	s are pre	sent on the groes	ndicators.)						
Remarks: SOILS Profile Descri	Water mark	tream gauge, more swere observed be to the depth netion, RM=Reduced N	nitoring well, a	erial photos, proks; water-stain	evious insponed leaves	onfirm the	sent on the gro e absence of ir ore Lining, M=Mati	ndicators.)						
Remarks: SOILS Profile Descri (Type: C=Concen	Water mark	tream gauge, more s were observed be to the depth netion, RM=Reduced Matrix	nitoring well, ad lon willow trurned to document to do	erial photos, processing photos, processing water-stain and the indicated Sand (and the sand (and th	evious insponed leaves cator or co	onfirm the	sent on the gro e absence of in ore Lining, M=Matr	ndicators.)						
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Remarks: SOILS Profile Descripe: C=Concent Depth (In.) 0-5 5-7	water mark ption (Descri	be to the depth netion, RM=Reduced Matrix Color (Moist) 2/1 3/1	nitoring well, and I on willow trure needed to document to the matrix, CS=Covers % 10 10 10 10 10 10 10	erial photos, process, water-stain states water-sta	evious insponed leaves cator or cograins; Locat	onfirm the	e absence of incore Lining, M=Mati	ndicators.) rix) Location	MMI S	gravel fragments				
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-5 5-7 7-21	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mi S2 - 2.5 cm M S3 - 5 cm Muc	be to the depth netion, RM=Reduced Matrix Color (Moist) 2/1 3/1 6/2 Indicators (Color Sulfide Layers (LRR F) ck (LRR FGH) depth of the depth of the color surface ark Surface ark Surface ark Surface ark Peat (LRK Peat or Peat or Peat (LRK Peat or Peat (LRK Peat or Peat (LRK Peat or Peat or Peat (LRK Peat or Peat or Peat (LRK Peat or	nitoring well, and lon willow trunched to doct Matrix, CS=Cover 100 100 600 100 100 100 100 100 100 100	crial photos, process; water-stain states; wat	evious insponed leaves cator or cograins; Locat Moist) 4/6 6/5GY 3/6 not present ledox Matrix Mucky Minera Gleyed Matrix Oark Surface d Dark Surface depressions	Mottle Mottle 20 18 2 t):	e absence of incre Lining, M=Matroses Type C D C	Location M M M O O O O O O O O O O O O O O O O	MMI S C C C C Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red I TF12 - Very Other (Expl	for Problemati Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depressi ced Vertic Parent Material y Shallow Dark s ain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	resent,		
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-5 5-7 7-21 NRCS Hydri	ption (Descriptration, D=Deplementation, D=Deple	be to the depth netion, RM=Reduced Matrix Color (Moist) 2/1 3/1 6/2 Indicators (Color Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LReyed Matrix cky Peat or Peat (LReyed Matrix	nitoring well, and lon willow trunched to dock Matrix, CS=Covers % 10 10 60 60 60 60 60 60	Color (CO) Hue_10YR Gley1 Hue_2.5YR Indicators are results of the service of th	evious insponed leaves cator or cograins; Locat Moist) 4/6 6/5GY 3/6 not present ledox Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface	mottle Mottle 20 18 2 t):	e absence of incre Lining, M=Matrices C D C Hydric So	Location M M M SI Present?	MMI S C C C C Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red I TF12 - Very Other (Expl	for Problemati Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depressi ced Vertic Parent Material y Shallow Dark s ain in Remarks) hydrophytic vegeta ed or problematic.	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface			

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site	: L3R				Sample Point: w-154n44w32-g4			
VEGETATIO	、 .	re non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC:4(A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 4 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.								
10.	l Total Cover =	0						
	Total Gover =	·	_		FACW spp. 105 $\times 2 = 210$			
Combiner/Obrasile	Chapting (Dist size, 45 ft and ins)				FAC spp. 0			
	Stratum (Plot size: 15 ft. radius)	45	V	EAC\A/	FACU spp. $\frac{0}{\sqrt{5}}$ $\times 5$			
1.	Salix eriocephala	45	Y	FACW				
2.	Salix discolor	35	Y	FACW				
3.	Salix petiolaris	15	N	OBL	Total 175 (A) 280 (B)			
4.								
5.					Prevalence Index = B/A = 1.600			
6.		<u> </u>						
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					X Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	 Total Cover =	95			X Prevalence Index is ≤ 3.0 *			
			_		Morphological Adaptations (Explain) *			
Herh Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Carex pellita	35	Υ	OBL	Problem Plydrophytic Vegetation (Explain)			
2.			Y	FACW	* Indicators of hydric soil and wetland hydrology must be			
	Carex sartwellii	25			present, unless disturbed or problematic.			
3.	Carex utriculata	10	N	OBL				
4.	Lysimachia thyrsiflora	5	N	OBL	Definitions of Vegetation Strata:			
5.	Symphyotrichum puniceum	5	N	OBL	_			
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.			
10.	Total Cover =	= 80						
	Total Cover =	. 00	_					
\\\ - \\ \\	tration (Distraine 00 ft and live)							
	tratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present?Y			
5.								
4.								
	Total Cover =							
Remarks:	Three willow species dominate the dense sh	rub compo	nent. Woo	olly sedge	and Sartwell's sedge dominate the ground layer.			
Additional I	Remarks:							
Additional Remarks:								
1								