## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R	_							Date:	09/12/14		
Applicant:			_							County: State:	Pennington		
Investigators:				Subregion (MLRA or LRR): MLRA 56							MN		
Soil Unit:	NWI Classification:										454-450514		
Landform:													
Slope (%):	0 - 2%							Datum:	□ No	Onations			
	-	nditions on the site typical			I ? (If no, expla				□ No	Section:			
Are Vegetation	•	□, or Hydrology □signif	•			Are	normal circum	-	esent?	Township:	Die		
Are Vegetation □ Soil □, or Hydrology □aturally problematic? ☑ Yes □ No Range: Dir: SUMMARY OF FINDINGS													
Hydrophytic Vegetation Present?  Yes  Hydric Soils Present? Yes													
	_												
Wetland Hydi			Yes	h aadaa ma	adaw and	wat mad	Is This Sampling Poin						
Remarks:													
	predominantly shallow marsh dominated by cattail, to the east it is mostly wet meadow dominated by arctic rush, prairie cordgrass, and northern reedgrass.  All parameters of wetland conditions are met.												
	•	ers of welland conditions a	are mei										
HYDROLOGY	Y												
Wetland Hyd	drology Indi	cators (Check all that app	oly; Mir	nimum of one	e primary o	r two se	condary require	ed):					
Primary:			-						Secondary:				
	□ A1 - Surface Water				B11 - Salt C		B6 - Surface S						
v v	A2 - High Wat A3 - Saturatio			□ B13 - Aquatic Fauna □							/egetated Concave Surface Patterns		
	B1 - Water Ma			□ C1 - Hydrogen Sulfide Odor □ □ □ C2 - Dry Season Water Table □							Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen						pheres on Living I	Roots (not tille		C8 - Crayfish E			
	B3 - Drift Dep				C4 - Presen						Visible on Aerial Imagery		
	B4 - Algal Mat				C7 - Thin Mu		ce		☑	D2 - Geomorph			
	B5 - Iron Depo	วรแร n Visible on Aerial Imagery			Other (Expla	ain)				D5 - FAC-Neut	rai Test ved Hummocks (LRR F)		
	B9 - Water-St	0,							_	D7 - 11031-1164	ved Hammocks (LIXIX I )		
Field Observ	vations:												
Surface Wate		Yes	Depth:		(in.)								
Water Table		Yes ☑	Depth:	0	(in.)			Wetland H	ydrology f	Present?	Υ		
Saturation Pro		Yes ☑											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
			Depth:		(in.)	ationa) i	if available.						
Describe Reco	orded Data (s	tream gauge, monitoring w	ell, aeria	al photos, pre	vious inspe			water d by		nun a ant			
	orded Data (s		ell, aeria	al photos, pre	vious inspe			wetland hyd	Irology are	present.			
Describe Reco	orded Data (s	tream gauge, monitoring w	ell, aeria	al photos, pre	vious inspe			wetland hyc	Irology are	present.			
Describe Reco	orded Data (s The soil is s	tream gauge, monitoring we aturated at the surface the	ell, aeria	al photos, pre ut the wetlar	evious inspe d area in tl	he ditch.	Indicators of	•	Irology are	present.			
Describe Reco Remarks: SOILS Profile Descrip	orded Data (s The soil is s ption (Descri	tream gauge, monitoring w	ell, aeria	al photos, pre ut the wetlar	evious inspendent area in the cator or cor	he ditch.	Indicators of versions absence of inc	dicators.)	Irology are	present.			
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Describe Recorded Remarks:  SOILS Profile Description (Type: C=Concent)  Depth (In.)  NRCS Hydri	ption (Descrintration, D=Deple	tream gauge, monitoring we aturated at the surface the beto the depth needed to etion, RM=Reduced Matrix, CS=  Matrix Color (Moist)	ell, aeria roughou docum Covered % e if indi	al photos, preut the wetlar nent the indicated Sand Control Control Color (N	evious inspendent area in the cator or core area.	he ditch.	absence of incre Lining, M=Matrix	Location	Texture  Indicators f	or Problematic			
Describe Recorded Remarks:  SOILS Profile Description (Type: C=Concent)  Depth (In.)	ption (Descri	tream gauge, monitoring we aturated at the surface the better to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix Color (Moist)  Indicators (check her	ell, aeria roughor docum Covered % e if indi	al photos, preut the wetlar nent the indic	evious inspendent area in the cator or coresions; Location Moist)  ot present)	he ditch.	absence of incre Lining, M=Matrix	dicators.)  x)  Location	Texture  Indicators f A9 - 1 cm M		Soils <sup>1</sup>		
Describe Reco	ption (Descrintration, D=Depletion (Soil Field A1- Histosol	tream gauge, monitoring we aturated at the surface the beto the depth needed to etion, RM=Reduced Matrix, CS=  Matrix Color (Moist)  Indicators (check herefolds)	ell, aeria roughou docum Covered % e if indi	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M	evious inspendent area in the cator or coresions; Location Moist)  ot present)  edox Matrix ucky Mineral	he ditch.  Infirm the on: PL=Poi	absence of incre Lining, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	or Problematic uck (LRR I, J) Prairie Redox ( urface (LRR G)	Soils <sup>1</sup> LRR F, G, H)		
Describe Reco	ption (Descriptration, D=Deplementation)  A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger	tream gauge, monitoring we aturated at the surface the beto the depth needed to etion, RM=Reduced Matrix, CS=  Matrix Color (Moist)  Indicators (check hereigned)	ell, aeria roughor docum Covered % e if indi	color (No. 1) S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G	d area in the cator or coresions; Location of present)  edox Matrix ucky Mineral leyed Matrix	he ditch.  Infirm the on: PL=Poi	absence of incre Lining, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P	or Problemation uck (LRR I, J) Prairie Redox ( urface (LRR G)	Soils <sup>1</sup>		
Describe Reco	ption (Descriptration, D=Depletration)  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger A5 - Stratified	tream gauge, monitoring we aturated at the surface the be to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix Color (Moist)  Indicators (check here is pedon etic in Sulfide Layers (LRR F)	ell, aeria roughou docum Covered  %  e if indi	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted	evious inspendent area in the cator or coresions; Location Moist)  ot present)  edox Matrix ucky Mineral leyed Matrix Matrix	he ditch.  Infirm the on: PL=Poi	e absence of incre Lining, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc	or Problematic uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressioned Vertic	Soils <sup>1</sup> LRR F, G, H)		
Describe Reco	ption (Descrintration, D=Deplementation, D=Deplementation)  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue	tream gauge, monitoring we aturated at the surface the beto the depth needed to etion, RM=Reduced Matrix, CS=  Matrix Color (Moist)  Indicators (check here is pedon etic in Sulfide Layers (LRR F) ck (LRR FGH)	ell, aeria roughor docum Covered % e if indi	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da	evious inspendent area in the cator or coresions; Location Moist)  ot present)  edox Matrix ucky Mineral leyed Matrix Matrix ark Surface	he ditch.  Infirm the on: PL=Poi	e absence of incre Lining, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	or Problematic uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic arent Material	Soils <sup>1</sup> LRR F, G, H)  ns (LRR H, outside MLRA 72, 73)		
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n45w25-d1			
VEGETATIO		e non-native sp	pecies.)					
Tree Stratum	(Plot size: 30 ft. radius)	0/ 0	Desilent	1. 1.0(-1	Dominance Test Workshoot			
1	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1. 2.					Number of Deminent Species that are ORL EACW or EAC: 3 (A)			
3.					Number of Dominant Species that are OBL, FACW, or FAC:3(A)			
4.					Total Number of Deminant Species Across All Strate: 3 (B)			
					Total Number of Dominant Species Across All Strata:3(B)			
5.					Demonstrat Demoissant Conneiss That Are ODL FACIAL on FAC: 100 00/ (A/D)			
6. 7.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
8.					Prevalence Index Worksheet			
9.								
10.					Total % Cover of: Multiply by:			
10.		0			OBL spp. $\frac{78}{100} \times 1 = \frac{78}{100}$			
	Total Cover =	0			FAC app. $\frac{16}{2}$ $\times$ $\frac{2}{3}$			
Conling/Chrub	Stratum (Plat aiza: 15 ft radius)				FACW spp. 16			
5apiing/Shrub 1.	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
2.					$OPL spp. \underline{\qquad \qquad } X S = \underline{\qquad \qquad } U$			
3.					Total 04 (A) 110 (B)			
4.					Total 94 (A) 110 (B)			
5.					Provolence Index – P/A – 4 470			
6.					Prevalence Index = B/A = 1.170			
7.								
8.					Hydrophytic Vegetation Indicators:			
9.								
10.					Rapid Test for Hydrophytic Vegetation  X Dominance Test is > 50%			
10.		0			<del></del>			
	Total Cover =							
Llank Otrations (	Distractor 5 (to an dissa)				Morphological Adaptations (Explain) *			
	Plot size: 5 ft. radius)	40	Υ	OBL	Problem Hydrophytic Vegetation (Explain) *			
1.	Carex utriculata	40		OBL	* Indicators of hydric soil and watland hydrology must be			
2.	Typha X glauca	15	Y	OBL	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
3.	Schoenoplectus acutus	15		OBL	<u> </u>			
4.	Carex pellita	5	N	OBL	Definitions of Vegetation Strata:			
5.	Juncus arcticus	5	N	FACW	Tues			
6	Calamagrostis stricta	5	N	FACW	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.			
7.	Spartina pectinata	5	N	FACW	Height (DBH), regardless of height.			
8.	Lycopus asper	3	N	OBL	One the wife water. Weady plants less than 2 in DPH, regardless of height			
9.	Phalaris arundinacea	1	N	FACW	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.								
11.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.			
12.					Herb - All herbaceous (hon-woody) plants, regardless of size.			
13.								
14.					And A Mark All Consideration of a condition of the circle			
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	94						
111								
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.				_	Undershadia Vanatatian Burana (O. V			
3.					Hydrophytic Vegetation Present?Y			
5.								
4.	Total Cover =	0						
Remarks:	The sample point is at the edge of a shallow	marsh and a	•		The shallow mash is dominated by hybrid cattail and hardstem bulrush and the			
sedge meadow is dominated by yellow lake sedge. To the east the sedge meadow gradually grades into a wet meadow where cordgrass and northern reedgrass become dominant.								
Additional Remarks:								
, administra								