## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/07/14	
Applicant:									County:	Kittson		
Investigators	:	BCS/BEH		Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:												
Landform:	Talf			_ Lo	cal Relief:	LL				Sample Point:	u-159n49w9-a1	
	0 - 2%		Latitude: 48.6		Longitude:		9861871	Datum:		1		
		nditions on the sit						⊡Yes	□No	Section:		
Are Vegetation		or Hydrology		y disturbed?	<b>λ1</b> : (11 110, 6λμ		e normal circun					
						\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	✓ Yes	□No	esent:	Township:	D' -	
Are Vegetation		☐ or Hydrology	Liturally pr	obiematic?			⊡ res	Пио		Range:	Dir:	
SUMMARY C												
Hydrophytic \	Vegetation P	resent?	No		_				ls Present?			
Wetland Hyd	Irology Prese	nt?	No							nt Within A We	etland? <b>No</b>	
Remarks:	The upland	sample point is lo	cated within a	ın agricultural	sugar bee	et field w	hich appears to	have beer	sprayed w	ith herbicide.		
	•			· ·	Ü							
HYDROLOGY	v											
Wetland Hy	drology Ind	icators (Check all	that apply; M	linimum of on	e primary	or two se	econdary requi	red):				
Primary:									Secondary:			
	A1 - Surface				B11 - Salt (					B6 - Surface S		
	A2 - High Wa				B13 - Aqua		le Odor				Vegetated Concave Surf	face
	A3 - Saturatio				C1 - Hydro					B10 - Drainage Patterns		
	B1 - Water M B2 - Sedimen				C2 - Dry Se		spheres on Living	Dooto (not till		C3 - Oxidized Rhizospheres on Living Roots (tilled) C8 - Crayfish Burrows		
	B3 - Drift Dep				C4 - Prese			Roots (not till			n Visible on Aerial Image	arv
l i	B4 - Algal Ma			= =	C7 - Thin M					D2 - Geomorph		,ı y
I	B5 - Iron Dep				Other (Expl		200			D5 - FAC-Neut		
		n Visible on Aerial Im	nagery	_	(	/					ived Hummocks (LRR F	÷)
	B9 - Water-St		0 ,								`	,
Field Observ	vations:											
Surface Water		Yes 🗆	Dont		(in )							
		=	Depti		(in.)			Wetland F	lydrology	Present?	N	
Water Table		Yes 🔲		າ:						<u>—</u>		
Saturation Pr	resent?	Yes $\square$	Depti	າ:	(in.)							
Describe Reco	orded Data (s	stream gauge, moni	itoring well, ae	rial photos, pr	evious insp	ections),	if available:					
		stream gauge, moni						ngoing hear	vv rainfall e	vents		
Describe Reco		stream gauge, moni indicators were ob						ngoing hea	vy rainfall e	vents.		
Remarks:								ngoing hea	vy rainfall e	vents.		
Remarks: SOILS	No primary	indicators were ob	served; surfa	ice soil cracki	ng is pres	ent due t	to recent and o		vy rainfall e	vents.		
Remarks:  SOILS Profile Descri	No primary	indicators were ob	eeded to docu	nce soil cracki	ng is pres	ent due to	to recent and o	ndicators.)	vy rainfall e	vents.		
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Remarks:  SOILS Profile Descri	No primary	indicators were ob be to the depth ne etion, RM=Reduced M	eeded to docu	nce soil cracki	ng is pres	ent due to	to recent and o e absence of ir ore Lining, M=Mati	ndicators.)	vy rainfall e	vents.		
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary	be to the depth ne etion, RM=Reduced M	eeded to docu atrix, CS=Covere	ment the indi	ng is presi cator or co Grains; Locat	ent due 1 onfirm the tion: PL=Pe	to recent and o e absence of ir ore Lining, M=Matr	ndicators.)		vents.		
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary  ption (Descri	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to docu atrix, CS=Covere	ment the indi	ng is presi cator or co Grains; Locat	ent due to	to recent and o e absence of ir ore Lining, M=Mati	ndicators.)	vy rainfall e	vents.	Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-9	No primary ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to docu atrix, CS=Covere	ment the indi	ng is presi	ent due 1 onfirm the tion: PL=Pe  Mottle	to recent and o e absence of ir ore Lining, M=Matr es Type	dicators.) ix) Location	Texture C	vents.	Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-9 9-20	ption (Descritration, D=Depl  Hue_10YR  Hue_2.5Y  ic Soil Field  A1- Histosol	be to the depth neetion, RM=Reduced Mi  Matrix Color (Moist)  2/1  3/1  Indicators (ch	eeded to docu atrix, CS=Covere % 100 99	ment the indi d/Coated Sand (  Color ()  Hue_10YR  dicators are r	cator or co Grains; Locat Moist)  3/6  not present	ent due f	to recent and o	Location  M	Texture C C Indicators 1 A9 - 1 cm N	for Problematic	: Soils <sup>1</sup>	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-9 9-20  NRCS Hydri	Ption (Descriptation, D=Deplied Hue_10YR Hue_2.5Y Hue_2.5Y Histosol A1- Histosol A2 - Histo Ep A4 - Hydroger A4 - Hydroger Hydroger A5 - Black His A4 - Hydroger A5 - Black His A4 - Hydroger A5 - Black His A6 - Black H	be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2/1  3/1  Indicators (chain and a chain	eeded to docu atrix, CS=Covere % 100 99	ment the indicators are r  S5 - Sandy R  S6 - Stripped F1 - Loamy M	cator or cc Grains; Locat  Moist)  3/6  anot present  edox Matrix Mucky Minera  Gleyed Matrix	ent due for firm the	to recent and o	Location M	Texture C C Indicators (A) A9 - 1 cm (A) A16 - Cost (S) 7 - Dark (S)	for Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G)	: <u>Soils¹</u> RR F, G, H)	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-159n49w9-a1
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)		
Tree Stratum (	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.					
4.					Total Number of Dominant Species Across All Strata: 1 (B)
5.					· · /
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					
10.					
10.					OBL spp. 0 x 1 = 0
	Total Cover =	0	_		FACW spp. 0 x 2 = 0
					FAC spp. 0 x 3 = 0
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0
1.					UPL spp. <u>16</u> x 5 = <u>80</u>
2.					
3.					Total 16 (A) 80 (B)
4.		-		-	
5.					Prevalence Index = B/A = 5.000
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
10.	_l Total Cover =	0			Prevalence Index is ≤ 3.0 *
	Total Cover =	U	_		
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)		.,		Problem Hydrophytic Vegetation (Explain) *
1.	Beta vulgaris	15	Y	NI	
2.	Triticum aestivum	1	N	NI	* 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.					
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.
					TIGID
13.					
14.					Manada Minana All woody vinon regardless of beight
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	16	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					, , , , , , , , , , , , , , , , , , ,
4.				-	
r.	Total Cover =	0			
Remarks:	The upland sample point is dominated by cu		nar heete		
i veiliai No.	The apiana sample point is dominated by cu	ıııval <del>c</del> u su(	gai neels.		
Additional R	Remarks:				