## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/29/14	
Applicant:										County:	Red Lake	
Investigators				Subregion (MLRA or LRR): MLRA 56						State:	MN	
Soil Unit:	159A				_	NWI	Classification:					
Landform:	Depression			Lo	cal Relief:	CC				Sample Point:	w-152n43w25-b1	
Slope (%):	3 - 7%		Latitude: 47.96	1995	Longitude:	-96.1040	031	Datum				
Are climatic/h	hydrologic co	onditions on the site	e typical for th	is time of yea	ar? (If no, exp	olain in rema	arks)	⊡Yes	🗆 No	Section:		
Are Vegetation	on 🖾 Soi	I ☑ or Hydrology	gnificantly	disturbed?		Are	e normal circum	nstances pr	esent?	Township:		
Are Vegetatio		I D or Hydrology					Yes	□No		Range:	Dir:	
SUMMARY OF FINDINGS												
Hvdrophytic V	Vegetation P	resent?	Yes					Hvdric Soi	Is Present?	Yes		
, , , ,				Yes			Is This Sampling Point Within A Wetland? Yes					
Remarks:				ocated within	a planted	corn fiel					nains growing throughout. Other	
		very little vegetation					9					
HYDROLOG												
		antona (Obselvall	the est area in a NAS									
		icators (Check all	that apply; M	nimum of or	e primary	or two se	econdary requi	red):	Connedan			
Primary:		Water			B11 - Salt (	<b>Cruct</b>			Secondary:	B6 - Surface S	oil Cracks	
								/egetated Concave Surface				
	A3 - Saturatio									B10 - Drainage		
	B1 - Water M				C2 - Dry Se	eason Wat	ter Table				Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen				C3 - Oxidiz	ed Rhizos	pheres on Living	Roots (not til	le 🗖	C8 - Crayfish B		
	B3 - Drift Dep B4 - Algal Ma			C4 - Presence of Reduced Iron							Visible on Aerial Imagery	
	B5 - Iron Dep			_	Other (Expl		ice			D2 - Geomorph D5 - FAC-Neut		
		on Visible on Aerial Im	agerv			iairi)			_		ved Hummocks (LRR F)	
		tained Leaves							_		()	
Field Observ	vations:											
Surface Wate		Yes 🛛	Depth		(in.)							
Water Table		Yes 🔲	Denth		(in.)			Wetland H	lydrology	Present?	Y	
Saturation Pr		Yes	Depth		(in.)						<u> </u>	
outdration			Deptil									
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
			-		<u> </u>	ections),	if available:					
Describe Reco Remarks:		stream gauge, moni and soil cracking a	-		<u> </u>	ections),	if available:					
Remarks:			-		<u> </u>	ections),	if available:					
Remarks: SOILS	Algal crust	and soil cracking a	re present.	ial photos, pr	evious insp							
Remarks: SOILS Profile Descri	Algal crust	and soil cracking a ibe to the depth ne	eded to docur	ial photos, pr	evious insp	onfirm the	e absence of in					
Remarks: SOILS Profile Descri	Algal crust	and soil cracking a	eded to docur	ial photos, pr	evious insp	onfirm the	e absence of in					
Remarks: SOILS Profile Descri	Algal crust	and soil cracking a ibe to the depth ne etion, RM=Reduced Ma	eded to docur	ial photos, pr	evious insp	onfirm the	e absence of in ore Lining, M=Matr		1			
Remarks: SOILS Profile Descri (Type: C=Concer	Algal crust	and soil cracking a ibe to the depth ne etion, RM=Reduced Ma Matrix	re present. reded to docui	nent the indi	cator or cc	onfirm the ion: PL=Pc Mottle	e absence of in ore Lining, M=Matr	ix)	Toutura		Domorizo	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Algal crust	and soil cracking a ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	re present.	ial photos, pr	cator or cc	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-11 11-18	Algal crust : iption (Descr ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR	and soil cracking a libe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 3/1	eeded to docuu atrix, CS=Coveree % 100 97 80	ment the indi	cator or cc Grains; Locat Moist)	onfirm the ion: PL=Pc Mottle %	e absence of in pre Lining, M=Matr es Type	Location	SC SC SC		Remarks	
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Remarks:           SOILS           Profile Descri           (Type: C=Concer           Depth (In.)           0-7           7-11           11-18           11-18           18-24           NRCS Hydr           □           □           □           □           □           □           □           □           □           □           □           □           □           □           □           □           □           □           □	Algal crust : ption (Descr Intration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_2.5YR ic Soil Field A1- Histosol A2 - Histoic Ep A3 - Black His A4 - Hydroge A5 - Stratificd A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	and soil cracking a ibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 2/1 3/1 10YR 9/2 6/2 Indicators (ch stic n Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface ucky Mineral Mucky Peat or Peat (LRF leyed Matrix	eeded to docuu atrix, CS=Coveree % 100 97 80 5 90 eck here if inc	ial photos, pr ment the indi J/Coated Sand Color ( Hue_7.5YR Hue_7.5YR Hue_7.5YR Hue_5YR dicators are I S5 - Sandy R S6 - Stripped dicators Are I S5 - Sandy R S6 - Stripped C7 - Depletec F8 - Redox D	evious insp evious insp Cator or cc Grains; Locat Moist) 3/4 4/6 5/8 5/8 5/8 5/8 6 5/8 6 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	mfirm the ion: PL=PC Mottle % 3 15 10 t):	e absence of in ore Lining, M=Matr 35 Type C C C C	Location M M M M	SC SC OT SC A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressio ced Vertic Parent Material Shallow Dark S ain in Remarks)	: <u>Soils<sup>1</sup></u> LRR F, G, H) INS (LRR H, outside MLRA 72, 73) urface	
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: w-152n43w25-b1			
VEGETATIO	N (Species identified in all uppercase and Plot size: 30 ft. radius)	e non-native	species.)					
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 1 (B)			
5.								
6. 7.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)			
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
	Total Cover =	0			FACW spp. 10 x 2 = 20			
					FAC spp. 0 $x 3 = 0$			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 5 x 4 = $20$			
1.					UPL spp. 50 x 5 = 250			
2.								
3.					Total 70 (A) 295 (B)			
4.								
5.	<u> </u>				Prevalence Index = B/A = <u>4.214</u>			
6. 7.	]							
<i>1</i> . 8.					Hydrophytic Vegetation Indicators:			
9.					Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation			
10.	<u> </u>				Dominance Test is > 50%			
	Total Cover =	0			Prevalence Index is ≤ 3.0 *			
			_		Morphological Adaptations (Explain) *			
Herb Stratum (	Plot size: 5 ft. radius)				X Problem Hydrophytic Vegetation (Explain) *			
1.	Zea mays	50	Y	NI				
2.	Rumex stenophyllus	10	Ν	FACW	* Indicators of hydric soil and wetland hydrology must be			
3.	Rorippa palustris	5	N	OBL	present, unless disturbed or problematic.			
4.	Solanum ptycanthum	5	N	FACU	Definitions of Vegetation Strata:			
5.								
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.			
7. 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 =	70	_					
Mast No. C.								
Woody Vine Str 1.	ratum (Plot size: 30 ft. radius)							
2.								
3.					Hydrophytic Vegetation Present? Y			
5.								
4.								
	Total Cover =							
Remarks:	The wetland vegetation is dominated by corr	n and narro	ow-leaf doo	ck. Proble	matic vegetation due to being located in an agricultural system.			
Additional Remarks:								
L								