## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/14/14
Applicant:										County:	Red Lake
Investigators		KRG/BCS			Subregio	n (MLRA c		MLRA 56		State:	MN
Soil Unit:	159A			<u> </u>			Classification:			-	
Landform:	Talf				cal Relief:					Sample Point	u-151n42w24-n1
	0 - 2%		Latitude: 47.88			-95.97628		Datum:			
		nditions on the site			ar? (If no, exp				□ No	Section:	
Are Vegetation		, or Hydrology				Are r	normal circum	•	esent?	Township:	
Are Vegetation		🖵 or Hydrology	Laturally pro	blematic?			Yes	□No		Range:	Dir:
SUMMARY C									_		
Hydrophytic	-		No				Hydric Soils Present?				
Wetland Hyd			No					Is This Sar	npling Poin	t Within A W	etland? No
Remarks:			cated at the ec	lge of an ex	isting clear	red pipelin	e corridor. Ve	getation is o	dominated	by Kentucky	bluegrass with catnip and
	Canada this	stie.									
HYDROLOG	Y										
Wetland Hy	drology Ind	icators (Check all	that apply; Mi	nimum of or	ne primary	or two sec	condary requi	red):			
Primary									Secondary:		
<ul> <li>A1 - Surface Water</li> <li>A2 - High Water Table</li> </ul>					B11 - Salt (					B6 - Surface S	
	A2 - High Wa A3 - Saturatio				B13 - Aqua C1 - Hydro		Odor				Vegetated Concave Surface
	B1 - Water M				C2 - Dry Se	eason Wate	er Table				Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	t Deposits			C3 - Oxidiz	ed Rhizospl	heres on Living	Roots (not till	• 🗖	C8 - Crayfish	Burrows
	B3 - Drift Dep				C4 - Prese	nce of Redu	uced Iron				n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		e			D2 - Geomorp D5 - FAC-Neu	
	B5 - Iron Dep B7 - Inundatio	on Visible on Aerial Im	agery		Other (Exp	all)					aved Hummocks (LRR F)
	B9 - Water-Si		agery							DI - HOSEIIC	
Field Obser	vations:										
Surface Wat		Yes 🛛	Depth:		(in.)						
Water Table		Yes	Depth:		(in.)			Wetland H	lydrology	Present?	N
Saturation Pr		Yes			(in.)						
Describe Des	ardad Data (	troom gougo moni	tering well eeri		_ 、 /	(actions) if	eveileble.				
		stream gauge, moni	-	ial photos, pr	evious insp		f available:				
Describe Rec Remarks:		stream gauge, moni or secondary indic	-	ial photos, pr	evious insp		f available:				
Remarks:			-	ial photos, pr	evious insp		f available:				
Remarks: SOILS	No primary	or secondary indic	ators of wetla	ial photos, pi nd hydrolog	revious insp y were obs	erved.		dicators )			
Remarks: SOILS Profile Descri	No primary		eded to docur	ial photos, pr nd hydrolog nent the ind	evious insp y were obs	erved.	absence of in				
Remarks: SOILS Profile Descri	No primary	or secondary indic	eded to docur	ial photos, pr nd hydrolog nent the ind	evious insp y were obs	erved.	absence of in				
Remarks: SOILS Profile Descri	No primary	or secondary indic	eded to docur	ial photos, pr nd hydrolog nent the ind	evious insp y were obs	erved.	absence of in e Lining, M=Matr				
Remarks: SOILS Profile Descri	No primary	or secondary indic	eded to docur	ial photos, pr nd hydrolog nent the ind	revious insp y were obs icator or cc Grains; Locat	erved. Onfirm the tion: PL=Por	absence of in e Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix	eded to docur	ial photos, pr nd hydrolog nent the ind //Coated Sand	revious insp y were obs icator or cc Grains; Locat	erved. onfirm the tion: PL=Por Mottles	absence of in e Lining, M=Matr	ix)	Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-13 6-13 13-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri- tration, D=Depi Hue_10YR Hue_10YR Hue_10YR Hue_20YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A4 - Hydroge A5 - Stratified A4 - Hydroge A5 - Stratified A5 - Stratified A5 - Stratified A6 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S4 - Sandy G	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 3/1 6/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRI leyed Matrix	eeded to docur atrix, CS=Covered % 100 90 10 100 100 100 100 100 100 100 1	ial photos, prind hydrology nent the ind l/Coated Sand Color ( Color (	A strike the second secon	erved.	absence of in e Lining, M=Matr S Type ✓		SCL SC C C <u>Indicators f</u> A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi sed Vertic Parent Material Shallow Dark S ain in Remarks)	<u>c Soils<sup>1</sup></u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-13 6-13 13-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary iption (Descrintration, D=Depiner Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Elp A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A1 - Deplete A3 - Black His A3 - Black His A3 - Stratified A3 - Stratified A4 - Hydroge A5 - Stratified A7 - Tick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 3/1 6/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR)	eded to docur atrix, CS=Covered % 100 90 10 10 100 0 0 0 0 0 0 0 0 0 0 0	ial photos, prind hydrology ment the ind VCoated Sand Color ( Color (	A second se	erved.	absence of in e Lining, M=Matr Type Type 2 2 A 72, 73 of LRF Hydric So	Location	SCL SC SC C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla 'Indicators of f unless disturbe	uck (LRR I, J) Prairie Redox urface (LRR G) Pains Depressi eed Vertic 'arent Material Shallow Dark S ain in Remarks) oydrophytic vegeta ed or problematic.	<u>c Soils<sup>1</sup></u> (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-13 6-13 13-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary iption (Descri- ntration, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu S4 - Sandy G r Type: Soil consist	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 3/1 6/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR ky Peat or Peat (LR)	eeded to docur atrix, CS=Covered % 100 90 10 100 100 eeck here if inc eeck here if inc B B B RR G, H) R F) Clay loam und	ial photos, prind hydrology ment the ind VCoated Sand Color ( Color (	A series of the series of	erved.	absence of in e Lining, M=Matr Type Type 2 2 A 72, 73 of LRF Hydric So	Location	SCL SC SC C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla 'Indicators of f unless disturbe	uck (LRR I, J) Prairie Redox urface (LRR G) Pains Depressi eed Vertic 'arent Material Shallow Dark S ain in Remarks) oydrophytic vegeta ed or problematic.	<u>c Soils<sup>1</sup></u> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface

## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-151n42w24-n1					
VEGETATIO	N (Species identified in all uppercase an Plot size: 30 ft. radius)	re non-native	species.)							
Thee Stratum (	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet					
1.		<u></u>								
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)					
3.										
4.					Total Number of Dominant Species Across All Strata: 3 (B)					
5.										
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)					
7.										
8.					Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.					OBL spp. 0 x 1 = 0					
	Total Cover =	0			FACW spp. 7 $x 2 = 14$					
					FAC spp. 5 X 3 = 15					
	Stratum (Plot size: 15 ft. radius)				FACU spp. 95 x 4 = 380					
1.					UPL spp. 0 $x = 0$					
2.	1									
3.	<u> </u>				Total <u>107</u> (A) <u>409</u> (B)					
4.	<u> </u>									
5.					Prevalence Index = B/A = <u>3.822</u>					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.		0			Dominance Test is > 50%					
	Total Cover =	0			Prevalence Index is < 3.0 *					
Llash Otsature (					Morphological Adaptations (Explain) *					
Herb Stratum (	Plot size: 5 ft. radius) Poa pratensis	50	Y	FACU	Problem Hydrophytic Vegetation (Explain) *					
2.	Cirsium arvense	15	Y	FACU	* Indicators of hydric soil and wetland hydrology must be					
3.	Nepeta cataria	15	Ý	FACU	present, unless disturbed or problematic.					
4.	Setaria pumila	10	N	FACU	Definitions of Vegetation Strata:					
5.	Lepidium densiflorum	5	N	FAC						
6	Trifolium repens	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast					
7.	Agrostis gigantea	5	N	FACW	height (DBH), regardless of height.					
8.	Phalaris arundinacea	2	Ν	FACW						
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 =	107	_							
	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? N					
5.	1									
4.	Total Cover =	0								
Remarks:	Vegetation is dominated by Kentucky bluegr		atnin and (	Canada th	istle					
i temanto.	· egetation to dominated by Rentdoky Didegi	000 WILLI 00								
Additional Remarks:										
Auditional R	Ciliai N3.									