## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		_3R Enbridge								Date: County:	07/29/14 Marshall
Investigators	Investigators: KRG/NTT				Subregio	n (MLRA	State:	MN			
Soil Unit:	Goil Unit: <u>I376A</u>				Subregion (MLRA or LRR): MLRA 56 NWI Classification:						
Landform:	Rise		40.44		ocal Relief:		4 47			Sample Point:	<u>u-157n47w7-a1</u>
Slope (%):	3 - 7%	ditions on the site	Latitude: 48.44		Longitude:			Datum: ☑ Yes	□ No	Section:	
Are Vegetatio		□, or Hydrology					e normal circun			Township:	
Are Vegetatio		□, or Hydrology	• •				e normai circui ☑ Yes		636111:	Range:	Dir:
SUMMARY C							100				2
Hydrophytic \	/egetation Pre	esent?	No					Hydric Soi	Is Present?	No	
Wetland Hyd	rology Presen		No							t Within A We	
Remarks:	The upland p	oint is located on	a slight rise b	etween a ro	adside dite	ch wetlar	nd and an agric	ultural field.	Vegetation	is dominated	by grasses.
HYDROLOG		etere (Obeels ell d									
Wetland Hy Primary:	•••	ators (Check all t	that apply; Mi	nimum of or	ne primary	or two se	econdary requi	red):	Secondary:		
	A1 - Surface W	ater			B11 - Salt	Crust				B6 - Surface S	oil Cracks
	A2 - High Wate				B13 - Aqua						/egetated Concave Surface
	A3 - Saturation B1 - Water Mar				C1 - Hydro C2 - Dry S					B10 - Drainage	Patterns Rhizospheres on Living Roots (tilled)
	B2 - Sediment I						spheres on Living	Roots (not till	€ □	C8 - Crayfish B	
	B3 - Drift Depos						duced Iron	·			Visible on Aerial Imagery
	B4 - Algal Mat of B5 - Iron Depos				C7 - Thin N Other (Exp		ace			D2 - Geomorph D5 - FAC-Neut	
		Visible on Aerial Ima	agery			Jany					ved Hummocks (LRR F)
	B9 - Water-Sta	ined Leaves									
Field Observ	vations:										
Surface Wate		∕es □	Depth:		(in.)						
Water Table		∕es □	Depth:		_ (in.)			Wetland F	lydrology l	Present?	Ν
Saturation Pr		∕es □	Depth:		(in.)						
Describe Reco	orded Data (sti	ream dauge monit	oring well, aeri	ial photos in							
		cam gauge, mont	e,, e.e.	iai priotos, pi	revious insp	pections),	if available:				
Remarks:	•	of wetland hydro			revious insp	pections),	if available:				
Remarks:	•				revious insp	pections),	if available:				
Remarks: SOILS	No indicators	of wetland hydrol	logy were obs	served.				diactora )			
Remarks: SOILS Profile Descri	No indicators		logy were obs	served.	icator or co	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri	No indicators	e to the depth nee	logy were obs	served.	icator or co	onfirm the	e absence of ir				
Remarks: SOILS Profile Descri (Type: C=Concen	No indicators	e to the depth nee ion, RM=Reduced Ma	eded to docun	served. nent the ind	icator or co Grains; Loca	onfirm the tion: PL=Pe Mottle	e absence of ir ore Lining, M=Mati	ix)			
Remarks: SOILS Profile Descri (Type: C=Concen Depth (In.)	No indicators	e to the depth nee ion, RM=Reduced Ma Matrix Color (Moist)	eded to docun trix, CS=Covered	served. nent the ind	icator or co	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-5 5-18 NRCS Hydr U	No indicators	e to the depth nee ion, RM=Reduced Ma Matrix Color (Moist) 2/1 5/2 ndicators (che	eded to docun trix, CS=Covered % 100 100	icators are	icator or co Grains; Loca (Moist) (Moist) not presen Redox d Matrix	onfirm the tion: PL=Pe Mottle %	e absence of ir ore Lining, M=Mati es Type	Location	C C Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (	<u>s Soils<sup>1</sup></u>
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: u-157n47w7-a1
VEGETATIO		e non-native	species.)		
Tree Stratum (	(Plot size: 30 ft. radius)				Deminance Test Werkshoet
1.	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
2.	<u> </u>				Number of Dominant Species that are ORL EACW, or EAC: $(\Lambda)$
3.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
<u> </u>					Total Number of Dominant Spacing Agross All Strates 2 (B)
<u> </u>	-				Total Number of Dominant Species Across All Strata: 2 (B)
5. 6.	-				$\frac{1}{2}$
6. 7.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
<i>7.</i> 8.	J				Prevalence Index Worksheet
<u> </u>	-				
<u> </u>					$\frac{\text{Total \% Cover of:}}{\text{OBL spp}} \qquad \qquad$
10.	 Total Cover =	0			OBL spp.       0       x       1 =       0         FACW spp.       10       x       2 =       20         FAC spp.       10       x       3 =       30         FACU spp.       50       x       4 =       200
l					FAC sop 10   X 3 = 30
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				$FACUspp = 50 \qquad x \ 4 = 200$
1.					UPL spp. 35 $X = 175$
2.	-				
3.	-				Total 105 (A) 425 (B)
4.					
5.					Prevalence Index = $B/A = 4.048$
6.	-				
7.					
8.					Hydrophytic Vegetation Indicators:
<u> </u>					Rapid Test for Hydrophytic Vegetation
<u> </u>	-				Rapid Test for Hydrophylic Vegetation Dominance Test is > 50%
10.	 Total Cover =	0			$\qquad \qquad $
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)	25	V	EACH	Problem Hydrophytic Vegetation (Explain) *
1.	Elymus repens	35	Y Y	FACU	* Indiactors of hydric coil and watland hydrology must be
2.	Bromus inermis	35			* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Phalaris arundinacea	10	<u>N</u>	FACW	
<u>4.</u>	Plantago major	5	<u>N</u>	FAC	Definitions of Vegetation Strata:
5.	Cirsium arvense	5	<u>N</u>	FACU	
6	Trifolium repens	5	N	FACU	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Tanacetum vulgare	5	<u>N</u>	FACU	height (DBH), regardless of height.
8.	Sonchus arvensis	5	N	FAC	
9.	-				<b>Sapling/Shrub -</b> Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover = _	105			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =				
Remarks:	Vegetatiin is dominated by smooth brome and	d wild rye.			
<b> </b>					
Additional R	2omarks:				
Additional					