WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 07/29/14
Applicant:		Enbridge							County: <u>Marshall</u>	
Investigators		NTT/KRG		Subregion (MLRA or LRR): MLRA 56						State: MN
Soil Unit:	I347A						I Classification:			
Landform:	Depression				cal Relief:					Sample Point: w-157n47w6-a1
Slope (%):	3 - 7%		Latitude: 48.4		Longitude:			Datum:		
Are climatic/h	hydrologic co	onditions on the sit	e typical for	his time of yea	ar? (If no, exp	plain in rema	arks)	☑ Yes	□ No	Section:
Are Vegetation	on 🛛 Soi	I □, or Hydrology	□significant	ficantly disturbed? Are normal circumstances present?						Township:
Are Vegetation	on 🗆 Soi	I □, or Hydrology	□aturally p	oblematic?			☑ Yes	□ No		Range: Dir:
SUMMARY C	of Finding	S								
Hydrophytic V	Vegetation P	resent?	Yes					Hydric Soil	s Present?	Yes
Wetland Hyd	Irology Prese	ent?	Yes		-			Is This Sar	npling Poin	nt Within A Wetland? Yes
Remarks:			eadow locate	d within a road	dside ditch	and dor				Typha angustifolia.
HYDROLOG	Y									
				A:						
	•••	icators (Check al	i that apply; i	linimum of or	e primary	or two se	econdary requir	ed):	0	
<u>Primary:</u> ☑	A1 - Surface	\//ator		-	B11 - Salt	Cruct			Secondary:	B6 - Surface Soil Cracks
	A1 - Sunace A2 - High Wa				B11 - Sait B13 - Aqua					B8 - Sparsely Vegetated Concave Surface
	A3 - Saturatio				C1 - Hydro					B10 - Drainage Patterns
	B1 - Water M				C2 - Dry S					C3 - Oxidized Rhizospheres on Living Roots (tilled)
	B2 - Sedimer	nt Deposits					spheres on Living	Roots (not tille		C8 - Crayfish Burrows
	B3 - Drift Dep						duced Iron			C9 - Saturation Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace		\checkmark	D2 - Geomorphic Position
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neutral Test
		on Visible on Aerial In	nagery							D7 - Frost-Heaved Hummocks (LRR F)
	B9 - Water-S	tained Leaves								
Field Observ										
Field Observ			_		<i>(</i> ,)					
Surface Wate			Dep		_ (in.)			Wetland H	vdroloav	Present? Y
Water Table		Yes 🗆	Dep		_ (in.)				,	
Saturation Present? Yes Depth: (in.)										
Describe Reco	orded Data (stream gauge, mon	itoring well. a	erial photos, pr	evious insc	pections).	if available:			
Remarks:		d has roughly four								
Remarks.	The wettan	u has roughly rour		inding water ti	nougnout.					
SOILS										
	intion (Descr	ibe to the depth ne	eded to doc	mont the indi	cator or co	onfirm th	a absence of in	dicatore)		
(Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered/Coated Sand Grains; Location: PL=Pore Lining, M=Matrix)										
		Matrix				Mottle	00			
Dopth (In)				Color (Location	Texture	Remarks
Depth (In.)		$(O \cap r (N) \cap O +)$	0/		IVIUISU	70				
		Color (Moist)	%			70	Туре	Location	Texture	INEITIAIKS
			%				Туре	LUCALION	Texture	
			%						Texture	
			%							
			%							
			%							

NPCS Hydric Soil Field Indicators (check here if indicators are not present).

NRCS Hydri	ic Soil Field Indicators (check here	if indicators are not present):				
			Indicators for Problematic Soils ¹			
	A1- Histosol	S5 - Sandy Redox	A9 - 1 cm Muck (LRR I, J)			
	A2 - Histic Epipedon	S6 - Stripped Matrix	A16 - Coast Prairie Redox (LRR F, G, H)			
	A3 - Black Histic	F1 - Loamy Mucky Mineral	□ S7 - Dark Surface (LRR G)			
	A4 - Hydrogen Sulfide	F2 - Loamy Gleyed Matrix	□ F16 - High Plains Depressions (LRR H, outside MLRA 72, 73)			
	A5 - Stratified Layers (LRR F)	F3 - Depleted Matrix	□ F18 - Reduced Vertic			
	A9 - 1 cm Muck (LRR FGH)	F6 - Redox Dark Surface	TF2 - Red Parent Material			
	A11 - Depleted Below Dark Surface	F7 - Depleted Dark Surface	TF12 - Very Shallow Dark Surface			
	A12 - Thick Dark Surface	F8 - Redox Depressions	Other (Explain in Remarks)			
	S1 - Sandy Mucky Mineral	F16 - High Plains Depressions (ML)	_RA 72, 73 of LRR H)			
	S2 - 2.5 cm Mucky Peat or Peat (LRR G, H)					
	S3 - 5 cm Mucky Peat or Peat (LRR F)		¹ Indicators of hydrophytic vegetation and wetland hydrology must be present,			
	S4 - Sandy Gleyed Matrix		unless disturbed or problematic.			
Restrictive Layer	er Type: Depth:		Hydric Soil Present? Y			
Remarks:	Soils were not sampled due to the loca	tion within a roadside ditch. The soil	Is are assumed to be hydric based on the landscape position and hydrophytic			
	vegetation present.					
	<u> </u>					

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VEGETATIO	N (Species identified in all uppercase are (Plot size: 30 ft. radius)	e non-native	species.)		
	<u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 40 X 1 = 40
	Total Cover =	0	_		FACW spp. 60 x 2 = 120
					FACW spp. 60 x $2 =$ 120 FAC spp. 0 x $3 =$ 0 FACU spp. 0 x $4 =$ 0
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 $x 4 = 0$
1.					UPL spp. 0 $X 5 = 0$
2.					
3.					Total <u>100</u> (A) <u>160</u> (B)
4.					
5.					Prevalence Index = $B/A = $ 1.600
6.					· · · · · · · · · · · · · · · · · · ·
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	0	_		X
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)		V		Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	60	<u>ү</u> У	FACW	* Indiactors of hydric soil and watland hydrology must be
2.	Typha angustifolia	40	Y	OBL	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.					
4.					Definitions of Vegetation Strata:
5.					Troo and the second sec
6 7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.					······································
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
11.	<u></u>				Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.	<u>,</u>				1
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	100			
		100	_		
Woody Vine S	tratum (Plot size: 30 ft. radius)				
1.					
2.	Í				
3.					Hydrophytic Vegetation Present? Y
5.					
4.					
	Total Cover =	0			
Remarks:	The wetland vegetation consists of Phalaris a	arundinace	a and Typ	ha angus	tifolia.
				-	
Additional I	Remarks:				