WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/22/14
Applicant:		Enbridge								County:	Marshall
Investigators	¥			Subregion (MLRA			or LRR):	MLRA 56		State:	MN
Soil Unit:	I57B	L		.			I Classification:			1	
Landform:	Depression			Local Relief: CC							w-155n45w20-h1
Slope (%):								Datum:			
		nditions on the site			¥			☑ Yes	□ No	Section:	
Are Vegetati				ntly disturbed?		1	e normal circun			Township:	
Are Vegetati		□, or Hydrology □	•	•			⊠ Yes	□ No		Range:	Dir:
SUMMARY (110		. toniger	
Hydrophytic			Yes	S				Hydric Soil	ls Present?	Yes	
· · ·	drology Prese		Yes							t Within A W	etland? Yes
Remarks:		d is a wet meadow c		-	that is curre	ntly hein	a arazed All n				
Remarks.	The wettand		Johnnannty			andy being					
HYDROLOG	V										
					_						
	•••	icators (Check all th	hat apply;	Minimum of c	one primary	or two se	econdary requi	red):			
Primary				_		a ,			Secondary:		
	A1 - Surface				B11 - Salt					B6 - Surface S	
	A2 - High Wa A3 - Saturatio				B13 - Aqua C1 - Hydro					B10 - Drainage	Vegetated Concave Surface
	B1 - Water Ma				C2 - Dry S						Rhizospheres on Living Roots (tilled)
	B2 - Sedimen						spheres on Living	Roots (not till	€ □	C8 - Crayfish I	
	B3 - Drift Dep	•					duced Iron	,		•	n Visible on Aerial Imagery
	B4 - Algal Ma				1 C7 - Thin M	Auck Surfa	ace		\checkmark	D2 - Geomorp	
	B5 - Iron Dep				Other (Exp 3	olain)				D5 - FAC-Neu	
		n Visible on Aerial Imag	gery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
E LI OL											
Field Obser											
Surface Wat		Yes 🗆	•	pth:	(in.)			Wetland H	lydrology	Present?	Y
Water Table		Yes 🗹	Dep	pth: <u>14</u>	(in.)			i i ottai i a	.,		
Saturation P	resent?	Yes 🛛	Dep	pth: <u>14</u>	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	corded Data (s	stream gauge, monito	orina well. a	aerial photos, r	previous insp	pections).	if available:				
					-						
Describe Rec Remarks:		stream gauge, monito f wetland hydrology			-						
Remarks:					-						
Remarks: SOILS	Indicators o	f wetland hydrology	are prese	ent. There is a	a water table	e at 14 in	nches.	dicators)			
Remarks: SOILS Profile Descr	Indicators o		are prese	ent. There is a cument the in	a water table	e at 14 in onfirm the	n <mark>ches.</mark> e absence of ir				
Remarks: SOILS Profile Descr	Indicators o	f wetland hydrology be to the depth need	are prese	ent. There is a cument the in	a water table	e at 14 in onfirm the	n <mark>ches.</mark> e absence of ir				
Remarks: SOILS Profile Descr	Indicators o	f wetland hydrology be to the depth nee etion, RM=Reduced Matr	are prese	ent. There is a cument the in	a water table	e at 14 in onfirm the tion: PL=Pe	nches. e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descr (Type: C=Conce	Indicators o	f wetland hydrology be to the depth need etion, RM=Reduced Matr Matrix	ded to doo	ent. There is a cument the indered/Coated San	a water table dicator or co d Grains; Loca	e at 14 in onfirm the tion: PL=Pe Mottle	nches. e absence of in ore Lining, M=Matr es	ix)	Texture		Remarks
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	Indicators o	f wetland hydrology be to the depth need etion, RM=Reduced Matr Matrix Color (Moist)	ded to doo rix, CS=Cove	cument the incered/Coated San	a water table	e at 14 in onfirm the tion: PL=Pe	nches. e absence of in ore Lining, M=Matr		Texture	mucky mineral th	Remarks
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-8 8-18 18-21	Indicators o	f wetland hydrology be to the depth need etion, RM=Reduced Matr Matrix Color (Moist) 2/1 2/1 4/1	eded to doo rix, CS=Cove	cument the indered/Coated Sand	a water table dicator or co d Grains; Loca	e at 14 in onfirm the tion: PL=Pe Mottle	nches. e absence of in ore Lining, M=Matr es	ix)	MMI SICL LFS	mucky mineral, th	
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-8 8-18 18-21 21-28 21-28	Indicators o iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	f wetland hydrology be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 2/1 4/1 4/1 5/3	eded to doo rix, CS=Cove	cument the indered/Coated Sand	a water table dicator or co d Grains; Loca (Moist) (Moist) e not presen Redox	e at 14 in onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es Type	Location	MMI SICL LFS FS FS <u>Indicators f</u> A9 - 1 cm M	or Problematio	ne mineral component is loamy
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.) 0-8 8-18 18-21 21-28 21-28 21-28 NRCS Hydr	Indicators o iption (Descrintration, D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Al- Histosol A2 - Histic Ep A3 - Black Histogeneric A3 - Black Histogeneric A4 - A1 -	f wetland hydrology be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 2/1 2/1 4/1 4/1 5/3 Indicators (cheat ipedon	eded to doo rix, CS=Cove	ent. There is a cument the ind ered/Coated Sand % Color 00 00 00 00 00 00 00 00 00 0	a water table dicator or co d Grains; Loca (Moist) (Moist) (Moist) e not presen Redox ed Matrix Mucky Miner	e at 14 in onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	ix)	MMI SICL LFS FS FS Modicators f A9 - 1 cm M A16 - Coast S7 - Dark S	or Problemation luck (LRR I, J) Prairie Redox (urface (LRR G)	ne mineral component is loamy <u>c Soils¹</u> (LRR F, G, H)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	e: L3R				Sample Point: w-155n45w20-h1					
VEGETATIO		e non-native	species.)							
Tree Stratum	(Plot size: 30 ft. radius)				De scheenen Teet Markek eet					
4	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet					
1.										
2.					Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)					
3.										
4.					Total Number of Dominant Species Across All Strata: 4 (B)					
5.					$\frac{1}{1}$					
6. 7.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)					
<i>7.</i> 8.					Prevalence Index Worksheet					
<u> </u>					<u>Total % Cover of:</u> <u>Multiply by:</u>					
<u> </u>					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
10.	 Total Cover =	0			$\frac{1}{1} = \frac{10}{100}$					
	•	~	—		FACW spp. 50 x $2 =$ 100 FAC spp. 5 x $3 =$ 15 FACU spp. 10 x $4 =$ 40					
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 10 $x 4 = 40$					
1.	Salix discolor	5	Y	FACW	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
2.	Betula pumila	5	Y	OBL						
3.					Total 80 (A) 170 (B)					
4.										
5.					Prevalence Index = B/A = 2.125					
6.	-1									
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					X Dominance Test is > 50%					
	Total Cover =	10			X Prevalence Index is ≤ 3.0 *					
					Morphological Adaptations (Explain) *					
Herb Stratum /	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Agrostis gigantea	25	Y	FACW						
2.	Spartina pectinata	20	Y	FACW	* Indicators of hydric soil and wetland hydrology must be					
3.	Poa pratensis	10	Ν	FACU	present, unless disturbed or problematic.					
4.	Carex pellita	5	Ν	OBL	Definitions of Vegetation Strata:					
5.	Scirpus pallidus	5	N	OBL	1					
6	Apocynum cannabinum	5	N	FAC	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.					
13.]					
14.										
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover =	70		I						
Woody Vine St	Stratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? Y					
5.										
4.	Total Cover									
Dementra	Total Cover =				Nexus dell'étais d'anne des anne anne est et leur enverence . L'hidron hutie verentetien iv					
Remarks:			-	-	ss. Many additional species are present at low coverage. Hydrophytic vegetation is					
	present. The plant community is slightly dist	urbed by g	razing but	: most plar	nt species are still identifiable.					
Additional F	Remarks:									