WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/22/14	
Applicant:		Enbridge		Subragion (MLDA ar LDD), MLDA 56						County:	Marshall	
Investigators Soil Unit:	I65A	RAJ/BEH		Subregion (MLRA or LRR): MLRA 56 NWI Classification: PEMBg					State:	MN		
Landform:	Depression Local Relief:									Sample Point	t: w-155n45w20-h2	
Slope (%):	0 - 2% Latitude: 48.226778 Longitude: -96.457025 Datum:]		
	• •	nditions on the site		-		1		☑ Yes	□ No	Section:		
Are Vegetati		□, or Hydrology	•	•	2	Are	e normal circun	•	esent?	Township:		
Are Vegetati		□, or Hydrology	Daturally p	roblematic?			☑ Yes	□ No		Range:	Dir:	
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes												
	drology Prese		Yes						mpling Point Within A Wetland? Yes			
Remarks:				oen. All para	ameters of v	vetland c	onditions are n					
Remarks: The wetland is dominated by trembling aspen. All parameters of wetland conditions are met.												
HYDROLOG	HYDROLOGY											
Wetland Hy	/drology Indi	cators (Check all t	that apply; N	Ainimum of a	one primary	or two se	econdary requi	red):				
Primary		•				•			Secondary:			
	A1 - Surface V A2 - High Wat			B11 - Salt B13 - Aqua					B6 - Surface	Soil Cracks Vegetated Concave Surface		
	A3 - Saturatio				C1 - Hydro					B10 - Drainag		
	B1 - Water Ma			C	1 C2 - Dry S						Rhizospheres on Living Roots (tilled)	
	B2 - Sediment B3 - Drift Dep	•					spheres on Living	Roots (not till		C8 - Crayfish	Burrows on Visible on Aerial Imagery	
	B4 - Algal Mat										ohic Position	
	B5 - Iron Depo			C	Other (Exp	olain)				D5 - FAC-Nei		
	B7 - Inundatio B9 - Water-St	n Visible on Aerial Ima ained Leaves	agery							D7 - Frost-He	aved Hummocks (LRR F)	
Field Obser	vations:											
Surface Wat	er Present?	Yes 🗆	Dep	th:	(in.)			Watland L	lydrology	Brocont?	Y	
Water Table	Present?	Yes 🗆	Dep	th:	(in.)			wettand r	lydrology	Present?	ř	
Saturation P	resent?	Yes 🛛	Dep	th:	(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
2000	(-	a cam gaage, monia		enai priotos, j			li avaliable.					
Remarks:		f wetland hydrology					li avaliable.					
Remarks:						Jections),	li avaliable.					
Remarks: SOILS	Indicators of	f wetland hydrology	are preser	nt.	·			dicators)				
Remarks: SOILS Profile Descr	Indicators of		are preser	nt. ument the in	dicator or co	onfirm the	e absence of ir					
Remarks: SOILS Profile Descr	Indicators of	f wetland hydrology be to the depth nee etion, RM=Reduced Mat	are preser	nt. ument the in	dicator or co	onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Mati					
Remarks: SOILS Profile Descri (Type: C=Concer	Indicators of iption (Descrintration, D=Deple	f wetland hydrology be to the depth nee etion, RM=Reduced Mat	eded to doct	nt. ument the in red/Coated San	dicator or co d Grains; Loca	onfirm the tion: PL=Pe Mottle	e absence of ir ore Lining, M=Matr es	ix)				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Indicators of iption (Descrintration, D=Deple	f wetland hydrology be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist)	eded to doct	ument the in ed/Coated San	dicator or co	onfirm the tion: PL=Pe	e absence of ir ore Lining, M=Mati		Texture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-15 15-21 NRCS Hydr	Indicators of iption (Descrintration, D=Deple Hue_10YR Hue_10YR ric Soil Field	f wetland hydrology be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 2/1 5/2 Indicators (che	v are preser	nt. ument the in red/Coated San Color Color O O O O O O O O O O O O O	dicator or co d Grains; Loca	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Matr es Type	Location	MMI FS <u>Indicators f</u> A9 - 1 cm M	f or Problemat luck (LRR I, J)	ponent is loamy	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n45w20-h2				
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	<u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Populus tremuloides	55	Y	FAC					
2.					Number of Dominant Species that are OBL, FACW, or FAC: <u>5</u> (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 7 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.	Total Cover =				OBL spp. 20 $x 1 = 20$				
	55			FACW spp. 30 x 2 = $\frac{60}{1000}$					
					FAC spp. $\frac{67}{100} \times 3 = \frac{201}{100}$				
	Stratum (Plot size: 15 ft. radius)			E 40	FACU spp. 15 $x 4 = 60$				
1.	Populus tremuloides	10	Y	FAC	UPL spp. 0 $x 5 = 0$				
2.	Lonicera tatarica	5	Y	FACU					
3.					Total <u>132</u> (A) <u>341</u> (B)				
4.									
5.					Prevalence Index = B/A = 2.583				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.		4.5			X Dominance Test is > 50%				
	Total Cover =	15			X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Agrostis gigantea	15	Y	FACW					
2.	Carex pellita	15	Y	OBL	* Indicators of hydric soil and wetland hydrology must be				
3.	Carex sartwellii	10	Y	FACW	present, unless disturbed or problematic.				
4.	Festuca pratensis	10	Y	FACU	Definitions of Vegetation Strata:				
5.	Symphyotrichum lateriflorum	5	N	FACW					
6	Cicuta maculata	5	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Thalictrum dasycarpum	2	N	FAC	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 =	62	_						
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
5.									
4.									
	Total Cover =	0							
Remarks:	The hardwood forest community is dominate	d by tremb	ling asper	n. Hydrop	hytic vegetation is present.				
Additional F	Remarks:								