WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/18/14	
Applicant: Enbridge				Subregion (MLRA or LRR): MLRA 56							Pennington	
Investigators:	•				S	ubregion (MLRA or LRR):	State:	MN			
Soil Unit:	127A					I D. II. (O	NWI Classific	ation:			454n 44m 00 a 4	
Slope (%):	0 - 2%						06.3239053333	Datum ☑ Yes		Continu		
	-	nditions on the site				(if no, explair			☑ No	Section:		
Are Vegetatio		□, or Hydrology	•	•				circumstances p	resent?	Township:	Dia	
Are Vegetation SUMMARY O		, ,	□aturally p	problema	liC?		V	Yes □ No		Range:	Dir:	
			Vo					Hydric Sc	oile Procont?) Voc		
Hydrophytic Vegetation Present? Wetland Hydrology Present?			Ye: Ye:				Hydric Soils Present? Is This Sampling Poin				etland? Yes	
					d ewamn			15 11115 06		it vvitilii A vv	etianu: 1 es	
Remarks: The wetland sample point is located in a hardwood swamp.												
HYDROLOGY	/											
			that and be	N dississes	- (
	•	cators (Check all t	tnat apply;	Minimun	of one p	orimary or	two secondary	requirea):	Cocondon			
<u>Primary:</u> □	A1 - Surface V	Nater			□ B ⁻	11 - Salt Cru	ıet		Secondary	<u>:</u> B6 - Surface S	oil Cracks	
	A2 - High Wat					13 - Aquatic					Vegetated Concave Surface	
	A3 - Saturation					•	n Sulfide Odor			B10 - Drainage		
	B1 - Water Ma	arks					son Water Table				Rhizospheres on Living Roots (tilled)	
	B2 - Sediment	•						Living Roots (not t	ill€ □	C8 - Crayfish E		
	B3 - Drift Dep						e of Reduced Iron				N Visible on Aerial Imagery	
	B4 - Algal Mat B5 - Iron Depo					7 - Thin Muc				D2 - Geomorp D5 - FAC-Neu		
		วรแร n Visible on Aerial Ima	anerv			ther (Explain	1)				rai rest aved Hummocks (LRR F)	
	B9 - Water-St		agery							D1 - 1 103t-1108	ived Fidinifioeks (EKKT)	
_												
Field Observ	ations:											
Surface Wate	er Present?	Yes □	De	epth:		(in.)					.,	
Water Table I		Yes		epth:		(in.)		Wetland	Hydrology	Present?	Y	
Saturation Pro		Yes										
Dagariba Daga						(in.)	tions) if available					
	orded Data (s	tream gauge, monito	oring well, a	aerial pho	· ·	ous inspec		e:				
Describe Reco	orded Data (s		oring well, a	aerial pho	· ·	ous inspec		e:				
Remarks:	orded Data (s	tream gauge, monito	oring well, a	aerial pho	· ·	ous inspec		e:				
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Remarks: SOILS Profile Descrip	orded Data (s The wetland otion (Descri	tream gauge, monitons local sample point is local be to the depth need	oring well, a	aerial pho sparsely cument th	vegetate	ous inspec d depressi	ion.	e of indicators.)				
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-18 18-24 NRCS Hydri	tration, D=Depletor Description (Description) Hue_10YR Hue_10YR Hue_5Y Ic Soil Field A1- Histosol A2 - Histic Epit A3 - Black History A4 - Hydroger	tream gauge, monitors sample point is located to the depth need t	oring well, a cated in a eded to do trix, CS=Cove	aerial pho sparsely cument thered/Coated %	color (Mo	ous inspected depression of confinition or confinition of confinit	irm the absence PL=Pore Lining, N Mottles % Type	e Location	MMI SCL SC Indicators A9 - 1 cm N A16 - Coasi S7 - Dark S F16 - High I	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression	c Soils ¹	
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-18 18-24 NRCS Hydri	The wetland otion (Descritration, D=Depleter Hue_10YR Hue_10YR Hue_5Y C Soil Field A1- Histosol A2 - Histic Epi A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick Di	tream gauge, monitor I sample point is located to the depth need to the depth need to the depth need to the determinant of the depth need to the depth need	eded to doo trix, CS=Cove	aerial pho sparsely cument the ered/Coated %	color (Mo andy Red tripped Ma bamy Muc bamy Gley epleted M edox Dark epleted D edox Dep	ous inspected depressions; Location oist) present): ox atrix cky Mineral yed Matrix latrix c Surface ark Surface ressions	irm the absence PL=Pore Lining, N Mottles % Type	e Location	Indicators Indicators A9 - 1 cm N A16 - Coasi S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression Ced Vertic Parent Material	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-2 2-18 18-24 NRCS Hydri	The wetland otion (Descritration, D=Depleter A1- Histosol A2 - Histic Epie A3 - Black History A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick District Canada A12 - Thick District Canada A13 - Sandy Mus A14 - Sandy Glasses A4 - Sandy Glasses A5 - Sandy Glasses A4 - Sandy Glasses A5 - Sand	tream gauge, monitors sample point is located to the depth need etion, RM=Reduced Materian Matrix Color (Moist) 2/1 2/1 6/1 Indicators (check to Sulfide Layers (LRR FGH) de Below Dark Surface ark Surface	cated in a eded to do trix, CS=Cove 10 11 10 RR G, H)	aerial pho sparsely cument the ered/Coate %	color (Mo	ous inspected depressions; Location oist) present): ox atrix cky Mineral yed Matrix latrix c Surface ark Surface ressions	irm the absence in PL=Pore Lining, Nottles Mottles Type	e Location Continuous de la continuous	Indicators Indicators A9 - 1 cm N A16 - Coasi S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Expl.)	for Problemation Muck (LRR I, J) It Prairie Redox (Surface (LRR G) Plains Depression Ced Vertic Parent Material Y Shallow Dark S ain in Remarks)	ESOILS ¹ LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w33-o1			
-								
VEGETATIO	· · ·	re non-native	species.)					
Tree Stratum ((Plot size: 30 ft. radius)				Devilence Test Wellelest			
4	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.	Populus tremuloides	60	Y	FAC				
2.	Ulmus americana	20	Υ	FAC	Number of Dominant Species that are OBL, FACW, or FAC: (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 6 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. $\frac{10}{10}$ $x = \frac{10}{20}$ FACW spp. $\frac{10}{10}$ $x = \frac{20}{20}$			
	Total Cover =	80			FACW spp. 10 $\times 2 = 20$			
					FAC spp. 105 $x 3 = 315$			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 20 $x 4 = 80$			
1.	Cornus racemosa	25	Υ	FAC	$UPL spp. \qquad 0 \qquad x 5 = \qquad 0$			
2.	Ribes americanum	10	Υ	FACW	· · · 			
3.					Total 145 (A) 425 (B)			
4.					(=)			
5.					Prevalence Index = B/A = 2.931			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.								
10.					Rapid Test for Hydrophytic Vegetation			
10.	Total Cover	25			Dominance Test is > 50%			
	Total Cover =	= 35			X Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Amphicarpaea bracteata	20	Υ	FACU				
2.	Cicuta maculata	10	Y	OBL	* Indicators of hydric soil and wetland hydrology must be			
3.					present, unless disturbed or problematic.			
4.					Definitions of Vegetation Strata:			
5.								
6					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.			
10.	Total Cover =	20			vvoody vinios a vinio			
	Total Cover =	= 30	_					
\\\\ = = = \\\\\\\\\\\\\\\\\\\\\\\\\\\	return (Diet einer 20 ft redive)							
vvoody vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present?Y			
5.								
4.								
	Total Cover =							
Remarks:		•			e shrub layer is predominantly grey dogwood and American black currant. Ground			
	cover is dominated by American hogpeanut	and spotte	a water ne	miock.				
Additional Remarks:								