WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/25/14	
Applicant:		Enbridge								County:	Pennington	
Investigators		MRK/OTG			Subregio	•	or LRR):	MLRA 56		State:	MN	
Soil Unit:	I16F			_			I Classification	:				
Landform:	Dip		10.01		cal Relief:		0.470000			Sample Point	w-153n43w29-m1	
Slope (%):	0 - 2%		Latitude: 48.03				8178333	Datum:		1		
		nditions on the site			ar'? (If no, exp				□ No	Section:		
Are Vegetation			⊏significantly			Are	e normal circun	•	esent?	Township:		
Are Vegetation			□aturally pro	blematic?				□ No		Range:	Dir:	
SUMMARY C												
Hydrophytic \	_		Yes						Is Present?		/ // 10 V	
Wetland Hyd			Yes	<u> </u>				Is This Sai	mpling Poin	t Within A W	etland? Yes	
Remarks:	The wetland	d sample point is wi	ithin a hardw	ood swamp c	lominated	by greer	n ash.					
HYDROLOGY	Y											
Wetland Hy	drology Indi	icators (Check all	that apply; M	inimum of on	e primary	or two se	econdary requi	red):				
Primary:	<u>.</u>	•						,	Secondary:			
A1 - Surface Water					B11 - Salt					B6 - Surface S		
	A2 - High Wa				B13 - Aqua				☑		Vegetated Concave Surface	
	A3 - Saturatio B1 - Water Ma				C1 - Hydro					B10 - Drainag		+:llod\
	B2 - Sedimen				C2 - Dry So		ater Table spheres on Living	Roots (not till	L -	C8 - Crayfish	Rhizospheres on Living Roots (t	.iiiea)
	B3 - Drift Dep						educed Iron	110013 (1101 1111		•	n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N				☑	D2 - Geomory		
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Nei		
		n Visible on Aerial Ima	agery							D7 - Frost-He	aved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
Field Observ												
Surface Wate	er Present?	Yes □	Depth	:	_ (in.)			Wetland F	łydrology l	Present?	Υ	
Water Table	Present?	Yes □	Depth	:	_ (in.)			Wetland i	iyarology i	i resent:	_ <u></u> _	
Saturation Pr	resent?	Yes □	Depth	:	(in.)							
Describe Reco	orded Data (s	stream gauge, monit	toring well, ae	rial photos, pr	evious insc	ections).	l if available:					
		tream gauge, monit		•	<u>.</u>	ections),	if available:					
Describe Reco		stream gauge, monit d is located in a dip		•	<u>.</u>	ections),	if available:					
Remarks:				•	<u>.</u>	ections),	if available:					
Remarks:	The wetland	d is located in a dip	and is spars	ely vegetated	i.	,		ndicators.)				
Remarks: SOILS Profile Descri	The wetland		and is spars	ely vegetated	I. cator or co	onfirm th	e absence of ir					
Remarks: SOILS Profile Descri	The wetland	d is located in a dip	and is spars	ely vegetated	I. cator or co	onfirm th	e absence of ir					
Remarks: SOILS Profile Descri	The wetland	d is located in a dip	and is spars	ely vegetated	I. cator or co	onfirm th	e absence of ir ore Lining, M=Matı					
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-12 12-15 15-21 NRCS Hydri	The wetland ption (Descriptration, D=Deplete Deplete	be to the depth need tion, RM=Reduced Ma Matrix Color (Moist) 2/1 3/1 4/1 Indicators (checking the color tice)	eded to docuntrix, CS=Covere	ment the indid/Coated Sand Color (Hue_10YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	Moist) 5/8 not presen edox Matrix fucky Miner	Mottle %	e absence of ir ore Lining, M=Mati es Type C	Location	CL C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox urface (LRR G)	i <mark>c Soils¹</mark> (LRR F, G, H)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-153n43w29-m1
					<u> </u>
VEGETATION		e non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Fraxinus pennsylvanica	25	<u>Y</u>	FAC	
2.	Populus tremuloides	5	N	FAC	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.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.	<u></u>				Total % Cover of: Multiply by:
10.					OBL spp. $0 x 1 = 0$
	Total Cover =	30			FACW spp. $0 x 2 = 0$
					FAC spp. 120 $x 3 = 360$
	Stratum (Plot size: 15 ft. radius)				OBL spp. 0
1.	Fraxinus pennsylvanica	75	Υ	FAC	UPL spp. $0 x 5 = 0$
2.					
3.					Total 120 (A) 360 (B)
4.					
5.					Prevalence Index = B/A = 3.000
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	75			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Equisetum laevigatum	10	Y	FAC	
2.	Fraxinus pennsylvanica	5	Υ	FAC	* 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 =	15			Troody Tilloo
	10(4) 00001 -	10	_		
Moody Vine St	ratum (Plot size: 30 ft. radius)				
1.	Raturn (Plot Size. 30 it. radius)				
2.					
3.					Hydrophytic Vocatation Procent?
5.					Hydrophytic Vegetation Present?Y
4.	Total Cover =	0		_	
Pomorko:			on och ond	d around or	ever is deminated by green ash coodlings and smooth securing rush
Remarks:	The wetland sample point canopy is dominat	ted by gree	an asn and	i ground co	over is dominated by green ash seedlings and smooth scouring rush.
Additional R	lemarks:				
					· ·