WETLAND DETERMINATION DATA FORM Great Plains Region

							g					
Project/Site:		L3R								Date: 09/26/14		
Applicant:		Enbridge								County: Pennington		
Investigators	:	NTT/BEH			Subregion	n (MLRA	or LRR):	MLRA 56		State: MN		
Soil Unit:	148A						I Classification:	PFO1C				
Landform:	Rise		40.44		cal Relief:					Sample Point: u-154n44w20-a1		
Slope (%):	8 - 15%		de: 48.146		Longitude:			Datum:		O contract		
	-	nditions on the site typic			If (If no, exp			☑ Yes	□ No	Section:		
Are Vegetation Are Vegetation	•		•	disturbed? blematic?		AIG	e normal circun ☑ Yes	⊓stances pro □ No	esent	Township: Range: Dir:		
			rally proc	nemano:			<u> </u>	□ INO		Range: Dir:		
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? No Hydric Soils Present? No												
Wetland Hyd			No							nt Within A Wetland? No		
Remarks:				I, although i	no areas w	ithin the	survey corrido			cteristics. The upland vegetation is dominated		
	•	orome and red clover.	•				•					
HYDROLOG	Υ											
Wetland Hy	drology Ind	icators (Check all that a	nnly Mir	nimum of on	e primary	or two s	econdary requi	red):				
Primary:	•	iodioio (onook an triat e	ippiy, iviii		o primary	0. 1110 0	ocorrdary roqui	100/1	Secondary:			
	A1 - Surface				B11 - Salt (B6 - Surface Soil Cracks		
	A2 - High Wa				B13 - Aqua					B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturation B1 - Water M				C1 - Hydrog C2 - Dry Se					B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen						spheres on Living	Roots (not till	le 🗆	C8 - Crayfish Burrows		
	B3 - Drift Dep				C4 - Prese			,		C9 - Saturation Visible on Aerial Imagery		
	B4 - Algal Ma				C7 - Thin M		ace			D2 - Geomorphic Position		
	B5 - Iron Dep	osits on Visible on Aerial Imagery			Other (Expl	iain)				D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F)		
		ained Leaves							_	27 Trock Hoaved Hammooke (Erick)		
Field Observ	vations:											
Surface Water	er Present?	Yes	Depth:		(in.)			Wotland L	lydrology l	Present? N		
Water Table		Yes	Depth:		(in.)			Welland r	iyurology i	——————————————————————————————————————		
Saturation Present? Yes Depth: (in.)												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: No wetland hydrology indicators are present.												
SOILS	(5)											
		be to the depth needed etion, RM=Reduced Matrix, CS										
(Type: 0=00neer	ntration, b=bcpi	ction, rawi–raddada iviatina, oa	3-Oovered/	Coalca Garia (Jianis, Locat	1011. T L=1	ore Elilling, Minimati	1/)				
		Matrix				Mottl	es					
Depth (In.)		Color (Moist)	%	Color (I	Moist)	%	Type	Location	Texture	Remarks		
0-12	Hue_10YR	2/1	100	,					SCL			
12-20	Hue_2.5Y	3/2	95	Gley1	4/10Y	5	D	M	CL			
20-28	Hue_2.5Y	7/3	97	Hue_10YR	7/8	3	С	M	SCL			
NRCS Hydr	ic Soil Field	Indicators (check h	ere if indi	icators are r	ot present	t):	abla					
			_					_		for Problematic Soils ¹		
☐ A1- Histosol ☐ S5 - Sandy Redox ☐ A9 - 1 cm Muck (LRR I, J)									,			
	□ A2 - Histic Epipedon □ S6 - Stripped Matrix □ A3 - Black Histic □ F1 - Loamy Mucky Mineral									: Prairie Redox (LRR F, G, H) urface (LRR G)		
	A3 - Black Histic											
	A5 - Stratified Layers (LRR F)											
	A9 - 1 cm Muck (LRR FGH) □ F6 - Redox Dark Surface □ TF2 - Red Parent Material - TE12 - Very Shallow Dark Surface											
	A11 - Depleted Below Dark Surface											
	S1 - Sandy M				•	sions (ML	RA 72, 73 of LRF	ы Р Н)	Other (Explo	an in Nonano,		
	□ 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, unless disturbed or problematic.											
									uniess disturbe	nd or problematic		
	S4 - Sandy G	leyed Matrix							ariicss distarbe	ей от ртовлетналс.		
		leyed Matrix							dilicos distarbe	ed of problematic.		
	S4 - Sandy G	leyed Matrix		Depth:			Hydric So	il Present?		ed of problematic.		

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-154n44w20-a1					
					•					
VEGETATIO	N (Species identified in all uppercase a	are non-native	e species.)							
Tree Stratum ((Plot size: 30 ft. radius)									
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet					
1.										
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)					
3.		1								
4.					Total Number of Dominant Species Across All Strata: 3 (B)					
5.		1								
6.		-			Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)					
7.	<u></u>	1			(142)					
8.	<u> </u>				Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.	Total Cavar				OBL spp. 0					
	Total Cover	= 0			FACW spp. $0 \times 2 = 0$					
					FAC spp. $0 \times 3 = 0$					
	Stratum (Plot size: 15 ft. radius)				FACU spp60					
1.					UPL spp. 40 $x = 5$ 200					
2.										
3.]			Total 100 (A) 440 (B)					
4.										
5.					Prevalence Index = $B/A = 4.400$					
6.		<u> </u>								
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					Dominance Test is > 50%					
10.	Total Cover	= 0			Prevalence Index is ≤ 3.0 *					
	Total Cover									
					Morphological Adaptations (Explain) *					
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Bromus inermis	40	Y	UPL						
2.	Trifolium pratense	25	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be					
3.	Phleum pratense	20	Υ	FACU	present, unless disturbed or problematic.					
4.	Poa pratensis	15	N	FACU	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.	<u>'</u>									
11.										
12.	, 				Herb - All herbaceous (non-woody) plants, regardless of size.					
13.		1			TICID - / III Hereaceae (Heri Heese) / Plante, regardlese et elle.					
	<u> </u>									
14.					All and the second seco					
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover	= 100	<u></u>							
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? N					
5.										
4.	T									
	Total Cover	= 0								
Remarks: The upland vegetation is dominated by smooth brome, red clover, and timothy.										
Tromains. The upland vegetation is dominated by smooth brome, red diover, and timothy.										
Additional Remarks:										