## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/17/14		
Applicant: Investigators		Enbridge NTT/BEH		Subregion (MLRA or LRR): MLR						County: State:	Pennington MN		
Soil Unit:	I53A			NWI Classification:						Sidle.			
Landform:	Dip			L	.ocal Relief:					Sample Poin	∷ w-154n44w32-g1		
Slope (%):	0 - 2%		Latitude: 48.		Longitude			Datum:		]			
		onditions on the si				1		☑ Yes	□ No	Section:			
Are Vegetatio		I □, or Hydrology	•	-		Are	e normal circun	-	esent?	Township:	5		
Are Vegetatio		I □, or Hydrology	/ Daturally p	problematic?			⊠ Yes	□ No		Range:	Dir:		
	UMMARY OF FINDINGS Iydrophytic Vegetation Present? Yes Hydric Soils Present? Yes												
Wetland Hyd	•			Yes					Is This Sampling Point Within A Wetland? Yes				
		d is a hardwood s			ing aspen a	nd prairi	e cordgrass.		inpiling i oli				
HYDROLOG	V												
		licators (Check a	all that apply:	Minimum of c	one primary	or two se	econdary requi	red)•					
Primary:	•••	icators (check a	an that apply,		ne prinary	01 100 30	econdary requi	ieu).	Secondary:				
		Crust				B6 - Surface							
	A2 - High Wa A3 - Saturatio			□ B13 - Aquatic Fauna □ □ C1 - Hydrogen Sulfide Odor □							Vegetated Concave Surface Je Patterns		
	B1 - Water M				C1 - Hydro						Rhizospheres on Living Roots (tilled		
	B2 - Sedimer	•			C3 - Oxidiz	zed Rhizos	spheres on Living	Roots (not till	€ □	C8 - Crayfish	Burrows		
	B3 - Drift Dep B4 - Algal Ma				C4 - Prese		duced Iron			C9 - Saturation D2 - Geomor	n Visible on Aerial Imagery		
	B5 - Iron Dep				Other (Exp		dee			D5 - FAC-Ne			
		on Visible on Aerial I	magery			,				D7 - Frost-He	aved Hummocks (LRR F)		
	B9 - Water-S	tained Leaves											
Field Observ	vations:												
Surface Wate	er Present?	Yes 🛛	Dep	oth:	(in.)			Watland L	lydrology	Brocont?	V		
Water Table	Present?	Yes 🛛	Dep	oth:	(in.)			wetland F	lydrology	Present?	Y		
Saturation Pr	resent?	Yes 🗆	Dep	oth:	(in.)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Reco	orded Data (	stream gauge, mor	nitoring well, a	aerial photos, p	previous insp	pections),	if available:						
Describe Reco Remarks:		stream gauge, mor hydrology indicat	-		-	_		ic position a	and vegetati	ion present.			
Remarks:			-		-	_		ic position a	and vegetati	ion present.			
Remarks: SOILS Profile Descri	No primary	hydrology indicat	tors observed	hydrology wa	as determin	onfirm the	d on geomorph e absence of ir	dicators.)	and vegetati	ion present.			
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Remarks: SOILS Profile Descri	No primary	be to the depth n letion, RM=Reduced N	tors observed	hydrology wa	as determin	onfirm the	d on geomorph e absence of ir ore Lining, M=Mati	dicators.)	and vegetati	ion present.			
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	be to the depth n letion, RM=Reduced M Matrix	tors observed	hydrology wa	as determin dicator or co d Grains; Loca	onfirm the tion: PL=Pe Mottle	d on geomorph e absence of ir ore Lining, M=Matr	ndicators.)		ion present.	Remarks		
Remarks: SOILS Profile Descri	No primary	hydrology indicat ibe to the depth n letion, RM=Reduced M Matrix Color (Moist)	tors observed needed to doo Matrix, CS=Cove	hydrology wa	as determin	onfirm the	d on geomorph e absence of ir ore Lining, M=Mati	dicators.)	and vegetati	ion present.	Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	No primary	hydrology indicat ibe to the depth n letion, RM=Reduced N Matrix Color (Moist)	needed to doo Matrix, CS=Cove	hydrology was cument the indered/Coated Sand	dicator or co d Grains; Loca (Moist)	onfirm the tion: PL=Pe Mottle	d on geomorph e absence of ir ore Lining, M=Matr es Type	idicators.)		ion present.	Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	No primary	hydrology indicat ibe to the depth n letion, RM=Reduced N Matrix Color (Moist) 2 2/1 5/2	needed to doo Matrix, CS=Cove	hydrology was cument the indered/Coated Sand	as determin	onfirm the tion: PL=Pe Mottle	d on geomorph e absence of ir ore Lining, M=Matr es Type	idicators.)		ion present.	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18	No primary	hydrology indicat ibe to the depth n letion, RM=Reduced N Matrix Color (Moist) 2 2/1 5/2	needed to doo Matrix, CS=Cove	hydrology was cument the independent of the indepen	as determin	onfirm the tion: PL=Pe Mottle	d on geomorph e absence of ir ore Lining, M=Matr es Type C	Location	Texture CL C	for Problemat	ic Soils <sup>1</sup>		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18	No primary	hydrology indicat ibe to the depth n letion, RM=Reduced N Matrix Color (Moist) 2/1 5/2 Indicators (c	needed to doo Matrix, CS=Cove	hydrology was cument the indered/Coated Sand 6 Color 00 5 Hue_10Y 5 Hue_10Y indicators are 0 S5 - Sandy	as determin	onfirm the tion: PL=Pe Mottle	d on geomorph e absence of ir ore Lining, M=Matr es Type C	Location M	Texture CL C Indicators f	for Problemat	ic Soils <sup>1</sup>		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	No primary	hydrology indicat ibe to the depth n letion, RM=Reduced N Matrix Color (Moist) 2/1 2/1 5/2 1 Indicators (C pipedon	needed to doo Matrix, CS=Cove	hydrology was cument the independence of the i	as determin	onfirm the tion: PL=Pe Mottle %	d on geomorph e absence of ir ore Lining, M=Matr es Type C	Location M	Texture CL C Indicators f A9 - 1 cm M A16 - Coast	for Problemat luck (LRR I, J)	i <mark>c Soils<sup>1</sup></mark> (LRR F, G, H)		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	No primary	hydrology indicat ibe to the depth n letion, RM=Reduced N Matrix Color (Moist) 2 2/1 2 5/2 4 100 Color (Moist) 2 2/1 3 2/1 4 100 Color (Moist) 4 2/1 5/2 Color (Moist) 4 Color (Moist) 4 2/1 5/2 Color (Moist) 5/2 Color (Moist) 4 Color (Moist) 5/2 Color (Moist) 4 Color (Moist) 4 Color (Moist) 5/2 Color (Moist) 4 Color (Moist) 5/2 Color (Moist) 4 Color (Moist) 5/2 Color (Moist) 4 Color (Moist) 5/2 Color (Moist) 5/2 Color (Moist) 5/2 Color (Moist) 4 Color (Moist) 5/2 Color (Moist) Color (Moist) C	tors observed meeded to doo Matrix, CS=Cove 9 10 9 10 9 check here if	hydrology wa cument the indered/Coated Sand 6 Color 00 5 Hue_10Y 5 Hue_10Y 1 S5 - Sandy 1 S5 - Sandy 1 S5 - Sandy 2 S5 - Sandy 2 S5 - Sandy 2 S5 - Sandy 3 S5 - Sandy 2 S5 - Sandy 3 S5 - Sandy 5 S5 - Sandy 5 S5 - Sandy 5 S5 - Sandy 5 S5 - S	As determined icator or condicator or condicator or condicator or condicator or condicators; Locators; Locators, Loc	ace	d on geomorph e absence of ir ore Lining, M=Matr es Type C	Location	Texture CL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Se F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	for Problemat Iuck (LRR I, J) Prairie Redox urface (LRR G Plains Depress ced Vertic	ic Soils <sup>1</sup> (LRR F, G, H) ) ions (LRR H, outside MLRA 72, 73) Surface		
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n44w32-g1				
		re 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	<u>78 Cover</u> 50	Y	FAC					
2.		50		IAU	Number of Dominant Species that are OBL, FACW, or FAC: 5 (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: <b>83.3%</b> (A/B)				
7.					(AD)				
8.	<u> </u>				Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. 20 $X 1 = 20$				
	Total Cover =	50			FACW spp. 70 $x 2 = 140$				
					FACW spp.70x2 =140FAC spp.85x3 =255FACU spp.10x4 =40				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 10 $x 4 = 40$				
1.	Populus tremuloides	20	Y	FAC	UPL spp. $0   x   5 = 0$				
2.	Quercus macrocarpa	10	Y	FACU					
3.	Cornus racemosa	10	Y	FAC	Total 185 (A) 455 (B)				
4.									
5.					Prevalence Index = B/A = <b>2.459</b>				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
10.	 Total Cover =	40			$\frac{1}{X} \qquad \text{Prevalence Index is } \leq 3.0 \text{ *}$				
					Morphological Adaptations (Explain) *				
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Spartina pectinata	60	V	FACW					
2.	Carex pellita	20	· · · · · · · · · · · · · · · · · · ·	OBL	* Indicators of hydric soil and wetland hydrology must be				
3.	Phalaris arundinacea	5	N	FACW	present, unless disturbed or problematic.				
4.	Anemone canadensis	5	N	FACW	Definitions of Vegetation Strata:				
5.	Solidago gigantea	5	N	FAC	Deminitions of Vegetation Otrata.				
6	Sondago gigantea	5		17.0	<b>Tree -</b> 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.	<u> </u>								
12.	I				Herb - All herbaceous (non-woody) plants, regardless of size.				
12.									
13.									
14.	<u> </u>				. Woody Vines - All woody vines, regardless of height.				
гJ.	Total Cover =	95			TTOOLY THES - THE TEES, THESE, TOGSTOLOGIC OF HOIGHT				
		95							
	return (Plat size) 20 ft, redius)								
	ratum (Plot size: 30 ft. radius)								
2.									
3.					Hydrophytic Vocatation Present?				
					Hydrophytic Vegetation Present? Y				
5.									
4.	Total Cover =	= 0							
Remarks:			nrairio cor	darace en	d woolly sedge in the ground lover				
Remarks.	The forest canopy is dominated by quaking		praine cor	uyrass af	a woony seage in the ground layer.				
<b></b>									
Additional F	Remarks:								
1									