## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R									Date:	09/16/14	
Applicant:	Enbridge		1							County:	Pennington	
Investigators		Н			Subregio	n (MLRA	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	153A			NWI Classification:						-		
Landform:	Dip		cal Relief:		2000			Sample Point	t: w-154n44w32-e1			
Slope (%):	3 - 7%	Latitude:			Longitude:			Datum		Castiens		
	nydrologic conditions				al ? (If no, exp	Ĩ			☑ No	Section:		
Are Vegetation		ydrology ⊏signifi ydrology ⊓atura	-			AD	e normal circu ☑ Yes	-	esent?	Township: Range:	Dir:	
	DF FINDINGS	yulology Hatula	ily pro				₪ 165			Range.		
	Vegetation Present?		Yes					Hydric Soi	Is Present?	Yes		
	rology Present?		Yes		_					t Within A W	/etland? Yes	
	The wetland is a free	sh wet meadow do		ed by Spart	ina pectina	ata.			inpinig i on			
					•							
HYDROLOG	Y											
Wetland Hv	drology Indicators (	Check all that ap	olv: Mi	nimum of or	ne primarv	or two s	econdary requ	uired):				
Primary:			Jy, 1011		lo primary	01 100 0	ocontaily roge		Secondary:			
	A1 - Surface Water				B11 - Salt					B6 - Surface S		
	A2 - High Water Table				B13 - Aqua			B8 - Sparsely Vegetated Concave Surface				
	A3 - Saturation B1 - Water Marks				C1 - Hydro C2 - Dry S				<ul> <li>B10 - Drainage Patterns</li> <li>C3 - Oxidized Rhizospheres on Living Roots (tilled)</li> </ul>			
	B2 - Sediment Deposits						spheres on Livin	g Roots (not til	le 🗆	C8 - Crayfish		
	B3 - Drift Deposits				C4 - Prese	ence of Re	duced Iron			C9 - Saturatio	on Visible on Aerial Imagery	
	B4 - Algal Mat or Crust				C7 - Thin N		ace			D2 - Geomorp		
	B5 - Iron Deposits B7 - Inundation Visible of	n Aerial Imagery			Other (Exp	piain)				D5 - FAC-Neu D7 - Frost-He	utral Test aved Hummocks (LRR F)	
	B9 - Water-Stained Lea	•••										
Field Observ	vations:											
Surface Wate	er Present? Yes		Depth:		(in.)			Watland L	Judrology	Drocont?	Y	
Water Table	Present? Yes		Depth:		(in.)			wetland	lydrology l	Present?	Y	
Saturation Pr	resent? Yes		Depth:		(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: No primary wetland hydrology indicators are present. Wetland hydrology is assumed based on geomorphic position and the FAC-Neutral test.												
						0,		U				
SOILS												
	ption (Describe to the											
(Type: C=Concer	ntration, D=Depletion, RM=	Reduced Matrix, CS=	Covered	Coaled Sand	Grains; Loca			urix)				
	M	latrix				Mottl	es					
Depth (In.)	Color (N		%	Color (	Moist)	%	Туре	Location	Texture		Remarks	
<u> </u>	Hue_10YR	2/1	100			70	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		C		Komarko	
6-18	Hue_10YR	5/2	90	Hue_10YR	6/6	5	С	M	C			
		0,1		Hue_10YR		5	D	M	C			
NRCS Hvdr	ic Soil Field Indicato	ors (check her	e if ind	licators are	not presen	t):						
			0 11 11 10						Indicators f	or Problemati	ic Soils <sup>1</sup>	
	A1- Histosol			S5 - Sandy F	Redox					luck (LRR I, J)		
	A2 - Histic Epipedon	□ S6 - Stripped Matrix □ A16 - Coast Prairie Redox (LRR F, G, H)										
	A3 - Black Histic		□ F1 - Loamy Mucky Mineral □ S7 - Dark Surface (LRR G)									
	A4 - Hydrogen Sulfide		<ul> <li>□ F2 - Loamy Gleyed Matrix</li> <li>□ F3 - Depleted Matrix</li> <li>□ F3 - Depleted Matrix</li> <li>□ F6 - Redox Dark Surface</li> <li>□ TF2 - Red Parent Material</li> </ul>									
	A5 - Stratified Layers (L A9 - 1 cm Muck (LRR F	,										
	A11 - Depleted Below D	,	□ F7 - Depleted Dark Surface □ TF12 - Very Shallow Dark Surface									
	A12 - Thick Dark Surfac		<ul> <li>F8 - Redox Depressions</li> <li>F16 - High Plains Depressions (MLRA 72, 73 of LRR H)</li> <li>Other (Explain in Remarks)</li> <li>Indicators of hydrophytic vegetation and wetland hydrology must be present,</li> </ul>									
	S1 - Sandy Mucky Miner											
	S2 - 2.5 cm Mucky Peat S3 - 5 cm Mucky Peat of	. ,										
	S3 - 5 cm Mucky Pear of S4 - Sandy Gleyed Matr	· · · · · · · · · · · · · · · · · · ·								ed or problematic.		
Restrictive Layer				Depth								
	· Туре:		-	Depth	•		Hyaric S	Hydric Soil Present? Y				
Remarks:	Soils meet indicator	A11 with concent	rations	s and deplet	ions prese	nt.						
1												

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Project/Site:	L3R				Sample Point: w-154n44w32-e1			
VEGETATIO		non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)	0/ 0	Deminent	la d Otatua	Dominance Test Worksheet			
1.	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test worksheet			
2.					Number of Dominant Species that are OBL EACW/ or EAC: $1$ (A)			
3.					Number of Dominant Species that are OBL, FACW, or FAC: <u>1</u> (A)			
4.					Total Number of Dominant Species Agrees All Strates 1 (B)			
					Total Number of Dominant Species Across All Strata: <u>1</u> (B)			
6.					Percent of Deminant Species That Are ORL EACIAL or EAC: $100.0\%$ (A/R)			
7.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)			
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. 20 $x 1 = 20$			
10.	Total Cover =	0			$FACW spp = \frac{75}{75} \times 2 = \frac{150}{150}$			
		0	_		$FAC spp = 10 \qquad x 3 = 30$			
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACW spp.75x2 =150FAC spp.10x3 =30FACU spp.0x4 =0			
1					UPL spp. $0   x  5 = 0$			
2.								
3.					Total 105 (A) 200 (B)			
4.								
5.					Prevalence Index = $B/A = 1.905$			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	Total Cover =	0			$\frac{1}{X} \qquad \text{Prevalence Index is } \leq 3.0 \text{ *}$			
			_		Morphological Adaptations (Explain) *			
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Spartina pectinata	60	Y	FACW				
2.	Carex pellita	20	N	OBL	* Indicators of hydric soil and wetland hydrology must be			
3.	Solidago gigantea	10	N	FAC	present, unless disturbed or problematic.			
4.	Poa palustris	10	N	FACW	Definitions of Vegetation Strata:			
5.	Juncus arcticus	5	N	FACW				
6					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.					height (DBH), regardless of height.			
8.	1							
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.	P							
14.								
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	105						
		100	_					
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? Y			
5.								
4.								
	Total Cover =	0		_				
Remarks: Wetland vegetation is dominated by Spartina pectinata with Carex pellita, Solidago gigantea, and Poa palustris also common.								
Additional Remarks:								