## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R							Date:	09/30/14	
Applicant:		Enbridge							County:	Pennington	
Investigators		BJC/RAJ			_Subregion (	MLRA or LRR):	MLRA 56		State:	MN	
Soil Unit:	I34A			_		NWI Classification	on:				
Landform:	Talf				ocal Relief: L				Sample Point:	u-153n44w13-a1	
Slope (%):	0 - 2%		Latitude: 48.0		Longitude: -9		Datum:				
		nditions on the site			ar? (If no, explai			□ No	Section:		
Are Vegetation		□, or Hydrology	•			Are normal circ	-	esent?	Township:		
Are Vegetation		, ,	□aturally pro	oblematic?		☑ Ye	s □ No		Range:	Dir:	
SUMMARY C											
Hydrophytic \			No		_			ls Present?			
Wetland Hyd			No						t Within A W		
Remarks:	The upland	sample point is loc	cated in a sm	all fallow are	a between a	soybean field and	a mixed area o	of hardwood	d swamp and	mesic forest.	
HYDROLOG'	Υ										
Wetland Hy	drology Indi	cators (Check all	that apply; M	inimum of oi	ne primary or	two secondary red	quired):				
Primary:	• • •	•	11 37		,	•	. ,	Secondary:			
	A1 - Surface V				B11 - Salt Cru				B6 - Surface S		
	A2 - High Wat				B13 - Aquatic					Vegetated Concave Surface	
	A3 - Saturation					n Sulfide Odor			B10 - Drainage		
	B1 - Water Ma B2 - Sediment					son Water Table I Rhizospheres on Livi	ing Roots (not till	<b>□</b>	C8 - Crayfish E	Rhizospheres on Living Roots (tilled)	
	B3 - Drift Dep	•				e of Reduced Iron	ing Roots (not till	`	-	n Visible on Aerial Imagery	
	B4 - Algal Mat				C7 - Thin Muc			_	D2 - Geomorp	<b>G</b> ,	
	B5 - Iron Depo				Other (Explain	n)			D5 - FAC-Neut		
		n Visible on Aerial Ima	agery						D7 - Frost-Hea	eved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves									
<b>F</b> '	-41										
Field Observ											
Surface Wate		Yes □	Depth		_ (in.)		Wetland H	lydrology l	Present?	N	
Water Table		Yes □	Depth		_ (in.)		Trottalia i	.ya. 0.0gy .		<u> </u>	
Saturation Pr	resent?	Yes □	Depth	າ:	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Reco	orded Data (s	tream gauge, monit	toring well, ae	rial photos, p		ctions), if available:					
Describe Reco	<u> </u>					ctions), if available:					
	<u> </u>	tream gauge, monit s of wetland hydro				etions), if available:					
Remarks:	No indicator	s of wetland hydro	ology were ob	served.	evious inspec	·					
Remarks:  SOILS Profile Descri	No indicator	s of wetland hydro	ology were ob	served. ment the ind	revious inspec	firm the absence o					
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Remarks:  SOILS Profile Descri	No indicator	s of wetland hydro be to the depth nee	ology were ob	served. ment the ind	revious inspec	irm the absence on PL=Pore Lining, M=M					
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	s of wetland hydro  be to the depth need  etion, RM=Reduced Ma  Matrix	eded to docu	served. ment the ind	revious inspecticator or conf Grains; Location	irm the absence on PL=Pore Lining, M=M	Matrix)	Toytura		Domorko	
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth need to the Reduced Ma  Matrix Color (Moist)	eded to docu	ment the ind	revious inspec	irm the absence on PL=Pore Lining, M=M		Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	s of wetland hydro  be to the depth need  etion, RM=Reduced Ma  Matrix	eded to docu	ment the ind	revious inspecticator or conf Grains; Location	irm the absence on PL=Pore Lining, M=M	Matrix)	Texture FSL		Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18	No indicator	s of wetland hydro  be to the depth need to the	eded to docu etrix, CS=Covere	ment the inded/Coated Sand	revious inspecticator or conf Grains; Location	irm the absence on PL=Pore Lining, M=N  Mottles  % Type	Matrix)	-		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18	No indicator  ption (Descrintration, D=Deple	s of wetland hydro  be to the depth need to the	eded to docu etrix, CS=Covere	ment the inded/Coated Sand	icator or conf Grains; Location	irm the absence on PL=Pore Lining, M=N  Mottles  % Type	Matrix)	FSL	or Problematic		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18	No indicator  ption (Descriptration, D=Depleted)  Hue_10YR  ic Soil Field  A1- Histosol	s of wetland hydro be to the depth need tion, RM=Reduced Ma  Matrix Color (Moist) 2/1  Indicators (che	eded to docu etrix, CS=Covere	ment the indud/Coated Sand  Color  dicators are  S5 - Sandy F	icator or conf Grains; Location (Moist) not present):	irm the absence on PL=Pore Lining, M=N  Mottles  % Type	Location	Indicators f	luck (LRR I, J)	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	ntration, D=Depleter Hue_10YR  ic Soil Field  A1- Histosol A2 - Histic Epi	s of wetland hydro be to the depth need tion, RM=Reduced Ma  Matrix Color (Moist) 2/1  Indicators (checked)	eded to docu etrix, CS=Covere	ment the inded/Coated Sand  Color  Color  dicators are  S5 - Sandy F S6 - Stripped	icator or conf Grains; Location (Moist) not present):	irm the absence on PL=Pore Lining, M=N  Mottles  % Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (	c Soils <sup>1</sup>	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	ption (Descrintration, D=Deplete Hue_10YR  ic Soil Field  A1- Histosol A2 - Histic Epi A3 - Black History A4 - Hydroger	s of wetland hydro be to the depth need tion, RM=Reduced Ma  Matrix Color (Moist) 2/1  Indicators (check pedon tick of Sulfide	eded to docu eatrix, CS=Covered % 100 eck here if in	color  Signature  Color  Color  Color  Signature  Signa	icator or conf Grains; Location (Moist) not present): Redox d Matrix Mucky Mineral Gleyed Matrix	irm the absence on PL=Pore Lining, M=N  Mottles  % Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	c Soils <sup>1</sup>	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	ption (Descrintration, D=Depleteration) Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleter A12 - Thick Di	s of wetland hydro be to the depth need tion, RM=Reduced Ma  Matrix Color (Moist)  2/1  Indicators (check to Sulfide Layers (LRR FGH) to Below Dark Surface ark Surface	eded to docu atrix, CS=Covered % 100 eck here if in	ment the inded/Coated Sand  Color  Color  S5 - Sandy F S6 - Stripper F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox I F7 - Deplete F8 - Redox I	icator or conf Grains; Location (Moist) (Moist) not present): Redox d Matrix Mucky Mineral Gleyed Matrix d Matrix Dark Surface d Dark Surface	Mottles  W	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression eed Vertic	E Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-153n44w13-a1				
					•				
<b>VEGETATION</b>	(Species identified in all uppercase	are non-native	species.)						
Tree Stratum (	Plot size: 30 ft. radius)								
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC:1(A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 3 (B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)				
7.		]							
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp. $\begin{array}{cccccccccccccccccccccccccccccccccccc$				
	Total Cover	= 0			FACW spp. $20$ $\times 2 = 40$				
					FAC spp15				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $65$ $\times 4 = 260$				
1.					UPL spp. $0   x   5 = 0$				
2.									
3.					Total 100 (A) 345 (B)				
4.									
5.					Prevalence Index = B/A = 3.450				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover	= 0	_		Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Poa pratensis	35	Υ	FACU					
2.	Phalaris arundinacea	20	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be				
3.	Taraxacum officinale	20	Υ	FACU	present, unless disturbed or problematic.				
4.	Sonchus arvensis	15	N	FAC	Definitions of Vegetation Strata:				
5.	Cirsium arvense	10	N	FACU					
6		1			Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.		1			height (DBH), regardless of height.				
8.									
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.									
11.									
12.		1			<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.				
13.		<del></del>							
14.									
15.					Woody Vines - All woody vines, regardless of height.				
10.	Total Cover	= 100							
	Total Cover	_ 100	_						
Woody Vino Str	ratum (Plot size: 30 ft. radius)								
1	atum (Flot size. 30 ft. faulus)								
2.									
3.					Hydrophytic Vegetation Present? N				
5.					Hydrophytic Vegetation Present?N				
4.	<u> </u>								
4.	Total Cover	= 0							
Domarka:			ograce ro	od coporu	various and common dandelien				
Remarks:	The upland sample point is dominated by h	Centucky blue	egrass, re	ed Canary	grass, and common dandellon.				
Additional Remarks:									