WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/17/14	
Applicant:		Enbridge								County:	Pennington	
Investigators	:	BEH/NTT			Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN	
Soil Unit:	153A						I Classification					
Landform:	Talf				cal Relief:					Sample Point:	u-154n44w32-h1	
Slope (%):	0 - 2%		Latitude: 48.1		Longitude:			Datum				
		onditions on the site	<u> </u>		ar? (If no, exp	1	· · · · · · · · · · · · · · · · · · ·	Yes	□ No	Section:		
Are Vegetation				y disturbed?		Are	e normal circun	-	esent?	Township:		
Are Vegetation			□aturally pr	oblematic?			Yes	□ No		Range:	Dir:	
SUMMARY C												
Hydrophytic \	_		No		-				Is Present?		11 10 N	
Wetland Hyd			No							nt Within A Wo	etland? No	
Remarks:	The upland	sample point is loc	cated in a fie	d dominated	by grasses	s and gol	ldenrods, adjad	cent to a sec	dge meado	w dip.		
HYDROLOG'	Y											
Wetland Hy	drology Ind	icators (Check all	that apply; M	linimum of on	e primary	or two se	econdary requi	red):				
Primary:	-								Secondary:			
	A1 - Surface				B11 - Salt (B6 - Surface S		
	A2 - High Wa A3 - Saturation				B13 - Aqua						Vegetated Concave Surface	
	B1 - Water M				C1 - Hydro C2 - Dry So					B10 - Drainage	Rhizospheres on Living Root	s (tilled)
	B2 - Sedimer						spheres on Living	Roots (not til	le 🗆	C8 - Crayfish E		3 (tilled)
	B3 - Drift Dep	•		_			duced Iron	(110010)			Nisible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp	hic Position	
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neut		
		on Visible on Aerial Ima	agery							D7 - Frost-Hea	eved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves										
Field Observ	votiono											
			5 .		(!: \							
Surface Wate		Yes		h:	. (in.)			Wetland H	- Hydrology I	Present?	N	
Water Table		Yes	•	h:	(in.)				,			
Saturation Pr	resent?	Yes □	Dept	n:	(in.)							
				'								
Describe Reco	orded Data (stream gauge, monit	toring well, ac	erial photos, pr	evious insp	ections),	if available:					
Describe Reco	<u> </u>	stream gauge, monit		• • •	<u>.</u>	ections),	if available:					
	<u> </u>			• • •	<u>.</u>	ections),	if available:					
Remarks:	No primary	or secondary hydro	ological indic	ators were ob	served.							
Remarks: SOILS Profile Descri	No primary ption (Descr	or secondary hydro	ological indic	ators were ob	served.	onfirm the	e absence of ir					
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Remarks: SOILS Profile Descri	No primary ption (Descr	or secondary hydro ibe to the depth ne- etion, RM=Reduced Ma	ological indic	ators were ob	served.	onfirm the	e absence of ir ore Lining, M=Mati					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descr	or secondary hydro ibe to the depth ne- etion, RM=Reduced Ma Matrix	eded to docu	ators were ob ument the indi	served. cator or co	onfirm the	e absence of ir ore Lining, M=Mati	rix)	Toyturo		Pomarko	
Remarks: SOILS Profile Descri (Type: C=Concer	No primary ption (Descr	or secondary hydrouse to the depth neterion, RM=Reduced Marix Color (Moist)	eded to docu	ators were obtained/Coated Sand Coated Color (served. cator or co	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-21 NRCS Hydr	Ption (Description, D=Deportration, D=Deportra	or secondary hydro ibe to the depth necetion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/2 Indicators (characters)	eded to docuatrix, CS=Coverd	color (Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped	cator or co Grains; Local Moist) 6/8 not presented ox Matrix	Mottle %	e absence of ir ore Lining, M=Mati es Type C	Location	Indicators 1 A9 - 1 cm M A16 - Coast	luck (LRR I, J) : Prairie Redox (: Soils ¹	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-21 NRCS Hydr	htration, D=Dep Hue_10YR Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	or secondary hydro ibe to the depth nedetion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/2 Indicators (check the color stice in Sulfide is Layers (LRR F)	eded to docuatrix, CS=Covers % 100 90 eck here if ir	ators were obtained/Coated Sand of Color (Color (Co	cator or co Grains; Local Moist) 6/8 not presented ox Matrix Mucky Mineral Sleyed Matrix I Matrix	Mottle Mottle 10 t):	e absence of ir ore Lining, M=Mati es Type C	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	fluck (LRR I, J) : Prairie Redox (urface (LRR G) Plains Depression ced Vertic	: Soils ¹ LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-21 NRCS Hydr	ption (Descriptration, D=Deportration, D=Depor	or secondary hydro ibe to the depth nedetion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/2 Indicators (checking Sulfide I Layers (LRR F) ick (LRR FGH)	eded to docuatrix, CS=Covers % 100 90 eck here if ir	ators were obtained the indicators are represented in the indicators are r	cator or co Grains; Local Moist) 6/8 not presented with the content of the cont	mottle Mottle % 10 t):	e absence of ir ore Lining, M=Mati es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	fluck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Parent Material	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-21 NRCS Hydr	ption (Descriptration, D=Deportration, D=Depor	or secondary hydro ibe to the depth necetion, RM=Reduced Ma Matrix Color (Moist) 2/1 7/2 Indicators (check in Sulfide I Layers (LRR F) ick (LRR FGH) ed Below Dark Surface	eded to docuatrix, CS=Covers % 100 90 eck here if ir	ators were obtained/Coated Sand of Color (Color (Co	Cator or constraints; Location of Cator or constraints; Location of Cator or constraints; Location of Cator or	mottle Mottle % 10 t):	e absence of ir ore Lining, M=Mati es Type C	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	fluck (LRR I, J) : Prairie Redox (urface (LRR G) Plains Depression ced Vertic	E Soils ¹ 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-154n44w32-h1
VEGETATION	(Species identified in all uppercase a	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:(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: 0.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 1
	Total Cover	= 0			FACW spp. $\frac{25}{}$ $\times 2 = \frac{50}{}$
					FAC spp. $5 X 3 = $
	Stratum (Plot size: 15 ft. radius)			0.01	FACU spp. $\frac{70}{100}$ X 4 = $\frac{280}{100}$
1.	Salix petiolaris	1	N	OBL	UPL spp. 25 $x 5 = 125$
2.					
3.					Total <u>126</u> (A) <u>471</u> (B)
4.					
5.					Prevalence Index = B/A = 3.738
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover	= 1			Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	25	Υ	UPL	
2.	Phleum pratense	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Solidago altissima	15	Υ	FACU	present, unless disturbed or problematic.
4.	Andropogon gerardii	15	Υ	FACU	Definitions of Vegetation Strata:
5.	Poa palustris	10	N	FACW	
6	Agrostis gigantea	10	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Elymus repens	10	N	FACU	height (DBH), regardless of height.
8.	Symphyotrichum ericoides	10	N	FACU	
9.	Sonchus arvensis	5	N	FAC	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.	Geum macrophyllum	5	N	FACW	
11.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover	= 125			
Woody Vine Str	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.	ĺ				
	Total Cover	= 0			
Remarks:	The sample site is dominated by smooth by		y, tall gold	lenrod, an	d big bluestem.
		•	<i>y</i> . 0	,	
Additional R	emarks:				
Additional R	denial no.				