## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/24/14	
Applicant:		Enbridge				0 1 1	(1.41 D.4		1415450		County:	Marshall	
Investigators		NTT/BEH				_Subregio	`	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I70A				1	l D . l' . (		I Classification	:			455-45242	
Landform:	Rise		Latituda, A	0 202		cal Relief:		740	Detuses		Sample Point	u-155n45w34-g2	4
Slope (%):	3 - 7%	anditions on the city	Latitude: 4			Longitude			Datum:	□ No	Continu		
		onditions on the site				ar: (ir no, ex					Section:		
Are Vegetati		I □, or Hydrology	•	-			Are	e normal circun	-	esent?	Township:	Dim	
Are Vegetation		, ,	□aturally	/ μισυ	nemanc?				□ No		Range:	Dir:	
			V	<b>'00</b>					Hydric Soil	le Procont?	No		
_				Yes No				Hydric Soils Present? No  Is This Sampling Point Within A Wetland?  No					
Remarks:		point is located in			et dominate	d by guaki	na asnai	n and gray dogs		ripiirig r oiri	it vvitiliii A vv	cuanu: NO	
remarks.	The apiana	point is located in	an aspen	10103	ot dominate	d by quart	ng asper	ir and gray dog	wood.				
HYDROLOG	V												
		in atoms (Observed)	l that analy	N 4!	·								
_		icators (Check all	I that apply	y; Min	ilmum of or	ne primary	or two s	econdary requi	red):	0			
<u>Primary</u> □	<u>′:</u> A1 - Surface	\Mater				R11 - Salt	Cruet			Secondary:	1	Soil Cracks	
	A2 - High Wa			□ B11 - Salt Crust □ □ B13 - Aquatic Fauna □							B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturation					C1 - Hydro					B10 - Drainag		
	B1 - Water M					C2 - Dry S						Rhizospheres on Livin	g Roots (tilled)
	B2 - Sedimer	•						spheres on Living	Roots (not till	• 🗀	C8 - Crayfish		
	B3 - Drift Dep B4 - Algal Ma					C4 - Prese		educed Iron			D2 - Geomorp	n Visible on Aerial Ima	gery
	B5 - Iron Dep					Other (Exp		ace			D5 - FAC-Neu		
		on Visible on Aerial Im	nagery		_	0 til.0. (= / p						aved Hummocks (LRR	? F)
	B9 - Water-S	tained Leaves											
Field Obser													
Surface Wat		Yes □	D	epth: _		_ (in.)			Wetland H	lydrology l	Present?	N	
Water Table		Yes □		epth: _		_ (in.)			Wolland I	.ya.o.ogy .	10001111	<u></u>	
Saturation P	resent?	Yes □	D	epth:		(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Rec	orded Data (	stream gauge, moni			al photos, pr	<u> </u>	pections),	, if available:					
Describe Rec Remarks:	•		itoring well,	, aeria		<u> </u>	pections),	, if available:					
	•	stream gauge, moni hydrology indicato	itoring well,	, aeria		<u> </u>	pections),	, if available:					
	•		itoring well,	, aeria		<u> </u>	pections),	, if available:					
Remarks:  SOILS Profile Descr	No wetland	hydrology indicato	itoring well, ors are pre	, aeria	ent the ind	revious insp	onfirm th	e absence of ir					
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Remarks:  SOILS Profile Descr (Type: C=Concer	No wetland	hydrology indicato ibe to the depth ne letion, RM=Reduced Ma	itoring well, ors are pre eeded to do atrix, CS=Co	, aeria	ent the ind	revious inspired icator or congressions; Local	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	rix)	Toyatuwa		Damanta	
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.)	No wetland	hydrology indicatorial ibe to the depth neletion, RM=Reduced Marrix  Color (Moist)	itoring well, ors are pre eeded to do atrix, CS=Co	ocum	ent the ind	revious inspired icator or congressions; Local	onfirm th	e absence of in Pore Lining, M=Matr		Texture		Remarks	
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Remarks:  SOILS Profile Descr (Type: C=Concel  Depth (In.) 0-20  NRCS Hydr	No wetland iption (Description, D=Dep  Hue_10YR  ric Soil Field  A1- Histosol	hydrology indicato ibe to the depth neletion, RM=Reduced Marix Color (Moist)  2/1  Indicators (ch	eeded to do atrix, CS=Co	ocumovered/ % 100 if indi	Coated Sand Coated Sand Color (  cators are	icator or congrains; Local (Moist)  not presented	onfirm th	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-20  NRCS Hydr	No wetland iption (Description, D=Dep  Hue_10YR  A1- Histosol A2 - Histic Ep	hydrology indicato  ibe to the depth neletion, RM=Reduced Marix  Color (Moist)  2/1  Indicators (chapping and property)	eeded to do atrix, CS=Co	ocumovered/	Coated Sand Coated Sand Color (  cators are    S5 - Sandy F S6 - Stripped	icator or congrains; Local (Moist)  not presented Matrix	onfirm the stion: PL=P  Mottl %  at):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox	<b>c Soils<sup>1</sup></b> (LRR F, G, H)	
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Remarks:  SOILS Profile Descr (Type: C=Concer  Depth (In.) 0-20  NRCS Hydr	Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	hydrology indicato  ibe to the depth neletion, RM=Reduced Marix  Matrix  Color (Moist)  2/1  Indicators (characters)  ipedon stic n Sulfide I Layers (LRR F) ick (LRR FGH) ed Below Dark Surface	eeded to de atrix, CS=Co	ocumovered/	Coated Sand Coated Sand Coated Sand Color (  Cators are    S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Depleted F6 - Redox E F7 - Depleted	icator or congrains; Local (Moist)  not present Additional Matrix Mucky Miner Gleyed Matrix Dark Surfaced Dark Surfaced Dark Surfaced	monfirm the stion: PL=P  Mottl %  ation: PL=P  Mottl %  ation: PL=P	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressiced Vertic Parent Material Shallow Dark S	c 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-155n45w34-g2
<b>VEGETATIO</b>	` '	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Populus tremuloides	75	Υ	FAC	
2.					Number of Dominant Species that are OBL, FACW, or FAC:3(A)
3.					
4.					Total Number of Dominant Species Across All Strata: 5 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. $\frac{0}{0}$ $\times 1 = \frac{0}{0}$
10.	 Total Cover =	75			FACW spp. $\frac{0}{0}$ $\times 2 = \frac{0}{0}$
	10tai 00v0i –		<del></del>		FAC spp. $\frac{103}{103}$ $\times 3 = \frac{309}{100}$
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $0   x   4 = 0$
1.		15	Υ	FAC	
2.	Comus racemosa			UPL	UPL spp. $30$ $x = 5$ $150$
	Zanthoxylum americanum	15	<u>т</u> Ү		Total 122 (A) 450 (D)
3.	Acer negundo	10	Ť	FAC	Total 133 (A) 459 (B)
4.					Dravalance Index D/A 0.454
5.					Prevalence Index = B/A = <u>3.451</u>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	40			Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Carex pennsylvanicia	15	Υ	UPL	
2.				1	* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					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.					Sapinig/Sinub - Weesly Plante less than 2211, regardless of height
11.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
12.					Herb - All flerbaceous (flort-woody) plants, regardless of size.
13.					
14.					All constitutions and the state of the state
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	15	_		
Woody Vine S	tratum (Plot size: 30 ft. radius)				
1.	Vitis riparia		3 <b>N</b>	FAC	
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =	3			
Remarks:			alence of f	acultative	species. Vegetation is dominated by quaking aspen.
	артонго разоско ило астиновного составо				aposition regardinaria de minimo de la quantita de perm
A al al!4! = !	Damanta.				
Additional I	kemarks:				
1					