WETLAND DETERMINATION DATA FORM Great Plains Region

		T											
Project/Site:		L3R									Date:	09/30/14	
Applicant:		Enbridge				Ola '	/ N / I /	\			County:	Pennington	
Investigators		BJC/RAJ				_Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit: Landform:	I55A Toeslope				Lo	cal Relief:		I Classification:			Sample Point	: u-153n44w11-e1	
Slope (%):	0 - 2%		Latitude: 48	3.088		Longitude:		7142	Datum:			. <u>a 1001177W11761</u>	
. , ,		nditions on the site							✓ Yes	□ No	Section:		
Are Vegetation	·					(******)	1	e normal circun			Township:		
Are Vegetation		□, or Hydrology		-					□ No		Range:	Dir:	
SUMMARY C			,								9		
Hydrophytic \	Vegetation P	resent?	No)					Hydric Soil	ls Present?	No		
Wetland Hyd	Irology Prese	nt?	No)					Is This Sar	mpling Poin	it Within A W	etland? No	
Remarks:	The upland	sample point is loc	cated in a n	mesic	c forest dor	minated by	/ quaking	g aspen and Pe	nnsylvania	sedge.			
HYDROLOG	Υ												
Wetland Hy	drology Ind	icators (Check all	that apply:	; Mini	imum of or	e primary	or two s	econdary requi	red):				
Primary:	•	()	,	,		,		, , ,	,	Secondary:			
	A1 - Surface					B11 - Salt					B6 - Surface S		_
	A2 - High Wa					B13 - Aqua						Vegetated Concave Su	ırface
	A3 - Saturation B1 - Water M					C1 - Hydro C2 - Dry S					B10 - Drainag	e Patterns Rhizospheres on Living	r Roots (tilled)
	B2 - Sedimer							spheres on Living	Roots (not till	• 🗆	C8 - Crayfish		g reodis (tilled)
	B3 - Drift Dep	•						educed Iron	(n Visible on Aerial Imag	gery
	B4 - Algal Ma					C7 - Thin N		ace			D2 - Geomorp		
	B5 - Iron Dep					Other (Exp	olain)				D5 - FAC-Neu		- \
		on Visible on Aerial Ima tained Leaves	nagery							П	D7 - Frost-He	aved Hummocks (LRR	F)
	ba - water-o	lailleu Leaves											
Field Observ	vations:												
Surface Water		Yes	De	anth:		(in.)							
Water Table		Yes		epth:		(in.)			Wetland H	lydrology l	Present?	N	
Saturation Pr		Yes		. –		(in.)						—	
Saturation Present? Yes Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
						<u> </u>		16 11 11					
	`					<u> </u>	pections),	, if available:					
Describe Reco	`	stream gauge, monit				<u> </u>	pections),	, if available:					
Remarks:	`					<u> </u>	pections),	, if available:					
Remarks:	No indicato	rs of wetland hydro	ology were	obse	erved.	- evious insp	,		dicators \				
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro	ology were	obse cume	erved.	evious insp	onfirm th	e absence of in					
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro	ology were	obse cume	erved.	evious insp	onfirm th	e absence of in					
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro	ology were	obse cume	erved.	evious insp	onfirm th	e absence of in Pore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	rs of wetland hydro be to the depth ne etion, RM=Reduced Ma Matrix	eeded to do	obse cume	erved. ent the indi	evious insp cator or co Grains; Loca	onfirm th	ne absence of in Pore Lining, M=Matr	ix)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	rs of wetland hydro be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do	obse ocume vered/0	erved.	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Matr				Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6	No indicato iption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do	obse ocume vered/0	erved. ent the indi	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)	LVFS		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No indicato	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to do	obse ocume vered/0	erved. ent the indi	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	ne absence of in Pore Lining, M=Matr	ix)			Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18	No indicato iption (Descriptration, D=Depl Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 4/2	eeded to do atrix, CS=Cov	obse ocume vered/0	ent the indi	cator or co	onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Matr es Type	ix)	LVFS		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	No indicato iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	Matrix Color (Moist) 2/1 4/2	eeded to do atrix, CS=Cov	obsevered/C	ent the indicoated Sand Color (cator or cograins; Loca Moist) not present	onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Matr es Type	Location	LVFS VFS	or Problemati	c Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18	No indicato iption (Descriptration, D=Depl Hue_10YR Hue_10YR	matrix Color (Moist) 2/1 4/2 Indicators (ch	eeded to do atrix, CS=Cov	obsecume vered/0	ent the indicated Sand Color (Cators are r	cator or cograins; Loca Moist) not presented ox	onfirm th tion: PL=P Mottl	e absence of in Pore Lining, M=Matr es Type	Location	LVFS VFS Indicators f	luck (LRR I, J)	c Soils ¹	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	matrix Color (Moist) 2/1 4/2 Indicators (ch	eeded to do atrix, CS=Cov	obsecume vered/C	ent the indicated Sand Coated Sand Coated Sand Cators are respectively. S5 - Sandy R S6 - Stripped T1 - Loamy R T2 - Loamy R	cator or cograins; Loca Moist) not presented a Matrix Mucky Miner Bleyed Matrix	mottl Mottl % tion: PL=P	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S6 F16 - High F	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	c Soils ¹ (LRR F, G, H)	3)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	matrix Color (Moist) Indicators (chapted in Sulfide Layers (LRR F) ck (LRR FGH)	eeded to dogatrix, CS=Covers	obsecume vered/0	cators are respectively. Color (S5 - Sandy Res6 - Strippede 1 - Loamy Res2 - Loamy Res2 - Loamy Res3 - Depleted 6 - Redox Depleted 1 - Redox De	cator or congrains; Local Moist) Moist) edox Matrix Mucky Miner Gleyed Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix Matrix	onfirm the tion: PL=P Mottl % t):	e absence of in Pore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73	3)
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-153n44w11-e1		
					-		
VEGETATIO		re non-native	species.)				
Tree Stratum	(Plot size: 30 ft. radius)						
	Species Name	% 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:(A)		
3.							
4.					Total Number of Dominant Species Across All Strata: (B)		
5.							
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 40.0% (A/B)		
7.							
8.					Prevalence Index Worksheet		
9.					Total % Cover of: Multiply by:		
10.					OBL spp. $0 x 1 = 0$		
	Total Cover =	75			OBL spp. $\begin{array}{cccccccccccccccccccccccccccccccccccc$		
					FAC spp. 105 $\times 3 = 315$		
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{45}{}$ $x 4 = \frac{180}{}$		
1.	Vibumum opulus	25	Y	FAC	UPL spp. 60 $x = 5$ 300		
2.	Prunus virginiana	10	Υ	FACU			
3.	Cornus racemosa	5	N	FAC	Total 210 (A) 795 (B)		
4.							
5.					Prevalence Index = B/A = 3.786		
6.							
7.							
8.					Hydrophytic Vegetation Indicators:		
9.					Rapid Test for Hydrophytic Vegetation		
10.					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 pensylvanica	60	Y	NI			
2.	Sanicula marilandica	20	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be		
3.	Cirsium arvense	10	N	FACU	present, unless disturbed or problematic.		
4.	Arctium minus	5	N	FACU	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.							
11.							
12.					Herb - All herbaceous (non-woody) plants, regardless of size.		
13.							
14.							
15.					Woody Vines - All woody vines, regardless of height.		
13.	Total Cover =	95					
	Total Cover =						
Woody Vino St	ratum (Plot size: 30 ft. radius)						
1							
2.							
3.					Hydrophytic Vegetation Present? N		
5.	1				ilyarophytic vegetation i resent:		
4.							
	Total Cover =	. 0					
Remarks:			nuakina as	nen and a	an herbaceous layer of Pennsylvania sedge and black snakeroot.		
i Nemarks.	The upland sample point is dominated by a	carlopy or c	quaking as	pen and a	in herbaceous layer of rennsylvania seage and black shakeroot.		
Additional Remarks:							
1							