WETLAND DETERMINATION DATA FORM Great Plains Region

		1											
Project/Site:		L3R									Date:	06/27/14	
Applicant: Enbridge											County:	Kittson	
Investigators: EAB/RAJ				Subregion (MLRA or LRR): MLRA 56							State:	MN	
Soil Unit: I133A				NWI Classification:									
Landform:						Local Relief: CL					Sample Boint:	w-159n48w31-g1	
	0 - 2%		1 22 1	40 EEC				204	Deture		Sample Foliti.	w-1591146W51-g1	
Slope (%):		P.C. 11 '1	Latitude:			Longitude:			Datum:				
		onditions on the sit				ar? (If no, exp			□Yes	☑ No	Section:		
Are Vegetati	on 🖵 Soi	□ or Hydrology	□gnific	cantly o	disturbed?		Are	e normal circun	nstances pre	esent?	Township:		
Are Vegetati	on 🛭 Soi	□ or Hydrology	□atural	ly prob	lematic?			Yes	□No		Range:	Dir:	
SUMMARY (, .							Ü		
				Yes					Lludria Cail	a Duanam#?	Vas		
Hydrophytic Vegetation Present?						-			Hydric Soil				
Wetland Hyd			Yes							nt Within A W			
Remarks:	The wetland	d is a shallow mars	sh locate	d withii	n a roadside	e ditch. Th	e ditch is	s dominated by	northern wa	ater plantai	n with some of	cattails. The ditch is interse	ected
	by existing	pipelines to the no	rth. At the	e time	of survey, r	ecent heav	vy rains	had washed so	il from the a	djacent far	m field into th	e ditch, blocking some wa	ater
HYDROLOG							•						
Wetland Hy	drology Ind	icators (Check all	I that app	ly; Min	imum of on	e primary	or two se	econdary requi	red):				
Primary	r:	•		•					•	Secondary:			
A1 - Surface Water				□ B11 - Salt Crust							B6 - Surface Soil Cracks		
	A2 - High Wa	ter Table		☐ B13 - Aquatic Fauna							B8 - Sparsely Vegetated Concave Surface		
✓	A3 - Saturatio					C1 - Hydro					B10 - Drainage Patterns		
	B1 - Water M	arks				C2 - Dry Se	ason Wa	ter Table			C3 - Oxidized Rhizospheres on Living Roots (tilled)		
√	B2 - Sedimer	t Deposits				C3 - Oxidiz	ed Rhizos	spheres on Living	Roots (not tille		C8 - Crayfish E	Burrows	, ,
	B3 - Drift Dep					C4 - Presei			,			Visible on Aerial Imagery	
√	B4 - Algal Ma	t or Crust				C7 - Thin M	luck Surfa	ace		-	D2 - Geomorp	hic Position	
	B5 - Iron Dep	osits				Other (Expl	lain)				D5 - FAC-Neut	tral Test	
	B7 - Inundation	on Visible on Aerial Im	nagery								D7 - Frost-Hea	ved Hummocks (LRR F)	
	B9 - Water-S	tained Leaves	• ,										
Field Obser	vations:												
						,, ,							
Surface Wat	ter Present?	Yes ☑	I	Depth:	4	(in.)			Wetland H	lydrology l	Drosont?	Υ	
Water Table	Present?	Yes \square	1	Depth:		(in.)			vvetiana n	iyarology i	i resent:	•	
Saturation P	resent?	Yes ☑	1	Depth:	0	(in.)							
		_				. (,							
Describe Rec	orded Data (stream gauge, mon	itoring we	II, aeria	al photos, pre	evious insp	ections),	if available:					
Describe Rec Remarks:									wn because	soils could	d not be samp	led due to potential buried	t
	Recent rain								wn because	soils could	d not be samp	led due to potential buried	t
Remarks:	Recent rain	s may have influe							wn because	soils could	d not be samp	led due to potential buriec	d
Remarks:	Recent rain utilities in the	s may have influence roadside ditch.	nced the	standiı	ng water de	pth. The w	ater tab	le depth unkno		soils could	d not be samp	led due to potential buried	d
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-159n48w31-g1
VEGETATION	(Species identified in all uppercase are	non-native	species.)		
	Plot size: 30 ft. radius)				
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.					`` <i>`</i>
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					Total Name of Both and Open of Name of States
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
7.					reicent of borninant opecies that Ale OBL, I AGW, of I AG.
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	<u>_</u>				OBL spp. 50 x 1 = 50
	Total Cover =	0			FACW spp. 5
					FAC spp. 0 x 3 = 0
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 20 x 4 = 80
1.	,				UPL spp. 0 x 5 = 0
2.					···
3.					Total 75 (A) 140 (B)
4.	_				· 5.66 (1) (17) (D)
					Dravolence Index = B/A = 4 007
5.					Prevalence Index = B/A = 1.867
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
	-		_		Morphological Adaptations (Explain) *
Herh Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Alisma triviale	40	Υ	OBL	rrobon riyarophyar vogatation (Explain)
2.	Elymus repens	20	· Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Typha angustifolia	10	N N	OBL	present, unless disturbed or problematic.
				_	
4.	Symphyotrichum lanceolatum	5	N	FACW	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.
15.	T.1.0	7-			TYOOUY TITIES 1000) Titles, regulations of Holying
	Total Cover =	75	_		
-	atum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?
5.					
4.					
<u> </u>	Total Cover =	0		_	
Remarks:	The sample point is dominated by northern w		ain guack	orass and	d narrow-leaf cattail
. Komarks.	The earlipie point is dominated by northern w	ator plant	ani, quack	g. 400, and	a narrow roar outtuin.
Additional R	emarks:				