WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/02/14				
Applicant:		Enbridge								County: State:	Kittson				
	NVestigators: BEH/MRK			Subregion (MLRA or LRR): MLRA 56							MN				
Soil Unit:	<u>1140A</u>			<u> </u>			I Classification	:							
Landform:	Dip				cal Relief:			<u> </u>		Sample Point	: w-159n48w6-e1				
Slope (%):	0 - 2%		Latitude: 48.		Longitude			Datum:							
		nditions on the site			ar? (If no, ex			⊡Yes	D No	Section:					
Are Vegetation		G or Hydrology		tly disturbed?		Are	e normal circun		esent?	Township:					
Are Vegetation		D or Hydrology	Liturally p	roblematic?			Yes	□No		Range:	Dir:				
SUMMARY C															
Hydrophytic			Yes		_				Is Present?						
Wetland Hyd	Irology Prese	nt?	Yes					Is This Sa	mpling Poir	nt Within A W	etland? Yes				
Remarks:					minated s	hallow m	iarsh, adjacent	to a flat, gra	avel lot. The	e site is borde	ered by a low dike to prevent in-				
	•	m a large surround	ding cattali n	harsn.											
HYDROLOG	Y														
Wetland Hy	drology Ind	icators (Check all	I that apply;	Minimum of or	ne primary	or two se	econdary requi	red):							
Primary									Secondary:						
	A1 - Surface				B11 - Salt					B6 - Surface S					
	A2 - High Wa A3 - Saturatio				B13 - Aqua C1 - Hydro						Vegetated Concave Surface				
	B1 - Water M				C1 - Hyurc C2 - Dry S						Rhizospheres on Living Roots (tilled				
	B2 - Sedimen						spheres on Living	Roots (not till							
	B3 - Drift Dep				C4 - Prese	ence of Re	duced Iron				n Visible on Aerial Imagery				
	B4 - Algal Ma				C7 - Thin I		ace			D2 - Geomorp					
	B5 - Iron Dep	osits In Visible on Aerial Im	2000		Other (Exp	blain)				D5 - FAC-Neu	itral Test aved Hummocks (LRR F)				
	B9 - Water-S		lagery						-	D7 - FIOSI-REA	aved Hummocks (LRR F)				
	20 11410. 0														
Field Obser	vations														
Surface Wat		Yes 🛛	Dep	th [.]	(in.)										
Water Table		Yes	Dep		(in.)			Wetland H	lydrology	Present?	Y				
Saturation P		Yes 🗹	Dep	-	(in.)						<u> </u>				
				•••• <u> </u>	,										
	orded Data (s	stream gauge, moni	itoring well, a	erial photos, pr	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:										
Remarks: Soil is saturated at the surface.															
Remarks:	Soil is satur	ated at the surface	e.	<u> </u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	li avaliable.								
	Soil is satur	ated at the surface	e.			, sectione),	li avallable.								
SOILS								adiactors)							
SOILS Profile Descri	iption (Descr	be to the depth ne	eded to doc	ument the ind	icator or co	onfirm th	e absence of ir								
SOILS Profile Descri	iption (Descr		eded to doc	ument the ind	icator or co	onfirm th	e absence of ir								
SOILS Profile Descri	iption (Descr	be to the depth ne etion, RM=Reduced Ma	eded to doc	ument the ind	icator or co	onfirm th ation: PL=P	e absence of ir ore Lining, M=Matr								
SOILS Profile Descri (Type: C=Concer	iption (Descr	be to the depth ne etion, RM=Reduced Ma Matrix	eeded to doc atrix, CS=Cove	ument the ind red/Coated Sand	icator or co Grains; Loca	onfirm th tion: PL=P Mottle	e absence of ir ore Lining, M=Matr	rix)	Texture		Remarks				
SOILS Profile Descri (Type: C=Concer Depth (In.)	iption (Descr Intration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to doc atrix, CS=Cove	ument the ind red/Coated Sand	icator or co Grains; Loca	onfirm th ation: PL=P	e absence of ir ore Lining, M=Matr		Texture		Remarks				
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-159n48w6-e1
VEGETATION	N (Species identified in all uppercase an Plot size: 30 ft. radius)	re non-native	species.)		
	<u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: <u>Multiply by:</u>
10.]				OBL spp. $_{63}$ x 1 = $_{63}$
	Total Cover =	0	_		FACW spp. 25 x 2 = 50
					FAC spp. 5 X 3 = 15
	Stratum (Plot size: 15 ft. radius)				FACU spp. 9 \times 4 = 36
1. 2.	1				UPL spp. 0 x 5 = 0
<u> </u>	1				Total 102 (A) 164 (P)
3. 4.	<u> </u>				Total <u>102</u> (A) <u>164</u> (B)
4. 5.	<u> </u>				Prevalence Index = B/A = 1.608
5. 6.	<u> </u>				
6. 7.	1				
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	Total Cover =	0			$\frac{1}{X} \qquad \text{Prevalence Index is } \le 3.0 \text{ *}$
					Morphological Adaptations (Explain) *
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Typha angustifolia	40	Y	OBL	
2.	Hordeum jubatum	25	Y	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Juncus bufonius	15	Ν	OBL	present, unless disturbed or problematic.
4.	Sonchus arvensis	5	Ν	FAC	Definitions of Vegetation Strata:
5.	Melilotus officinalis	5	Ν	FACU	
6	Juncus canadensis	2	Ν	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Trifolium hybridum	2	Ν	FACU	height (DBH), regardless of height.
8.	Beckmannia syzigachne	2	Ν	OBL	
9.	Puccinellia nuttalliana	2	N	OBL	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.	Elymus repens	2	N	FACU	
11.	Schoenoplectus maritimus	2	N	OBL	
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	102	_		
	ratum (Plot size: 30 ft. radius)				
1. 2.					
<u> </u>					Hydrophytic Vegetation Present? Y
5.	<u></u>				
5. 4.					
	Total Cover =	0			
Remarks:	The wetland sample area is dominated by no		cattail and	l foxtail ba	rley.
Additional R	emarks:				
Additional N	temurka.				