WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R										Date:	07/02/14		
Applicant: Enbridge Investigators: EAB/RAJ				Subrasian (MLDA and DD): MLDA 50						County:	Kittson		
Investigators: EAB/RAJ Soil Unit: I132A				Subregion (MLRA or LRR): <u>MLRA 56</u> NWI Classification:						State:	MN		
Landform:	Talf			- 10	cal Relief:		i Classification.			Sample Point	u-159n49w23-f1		
Slope (%):	0 - 2%		Latitude: 48.5		Longitude:		381	Datum:		Sample Folli	<u>u-1001140W20-11</u>		
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)													
Are Vegetatio	<u>, ,</u>	G or Hydrology	gnificantly		(e normal circun			Township:			
							🗹 Yes	⊡ No		Range:	Dir:		
Are Vegetation □ Soil □ or Hydrology □ Iturally problematic? □ Yes □No Range: □ □ □ □ □ Summary of Findings □<													
Hydrophytic Vegetation Present? No Hydric Soils Present? No													
Wetland Hyd	Irology Prese	nt?	No				Is This Sampling Poir						
Remarks: The sample site is located in an unmanaged strip of land between a crop field and a roadside ditch. Vegetation has been cleared and the spot drains into the													
		nt heavy rains have	e affected the	area.									
HYDROLOG	Y												
Wetland Hy	drology Ind	icators (Check all	that apply; M	inimum of on	e primary	or two s	econdary requi	red):					
Primary:				_		. .			Secondary:				
	A1 - Surface V A2 - High Wa				B11 - Salt (B13 - Aqua					 B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface 			
	A3 - Saturatio			_					H				
	B1 - Water M			C1 - Hydrogen Sulfide Odor									
	B2 - Sedimen				C3 - Oxidiz	ed Rhizos	spheres on Living	Roots (not till					
	B3 - Drift Dep B4 - Algal Ma				C4 - Preser C7 - Thin M					D2 - Geomori	n Visible on Aerial Imagery		
	B5 - Iron Dep				Other (Expl					D5 - FAC-Neu			
		n Visible on Aerial Im	agery							D7 - Frost-He	aved Hummocks (LRR F)		
	B9 - Water-St	ained Leaves											
Field Observ			Death		(in)								
Surface Wate Water Table		_	Deptr	:	(in.)			Wetland H	lydrology	Present?	Ν		
		Yes		:							—		
Saturation Present? Yes Depth: (in.)													
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
			-		evious insp	ections),	if available:						
Describe Reco Remarks:		tream gauge, moni hydrology indicato	-		evious insp	ections),	if available:						
Remarks:			-		evious insp	ections),	if available:						
Remarks: SOILS	No wetland		ors were obse	rved.	-			dicators.)					
Remarks: SOILS Profile Descri	No wetland ption (Descri	hydrology indicato	eded to docu	rved. ment the indi	cator or co	onfirm th	e absence of ir						
Remarks: SOILS Profile Descri	No wetland ption (Descri	hydrology indicato be to the depth ne etion, RM=Reduced Ma	eded to docu	rved. ment the indi	cator or co	onfirm th	e absence of ir ore Lining, M=Matr		1				
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland ption (Descri	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix	rs were obse reded to docu atrix, CS=Covere	rved. ment the indi d/Coated Sand (cator or cc Grains; Locat	onfirm th ion: PL=P Mottle	e absence of ir ore Lining, M=Matr	ix)			Deresda		
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-159n49w23	-f1				
VEGETATION (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft. radius)										
Tree Stratum (Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet					
1.		<u>/// Cover</u>	Dominant	ind.otatus	Bonnance rest Worksheet					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)					
3.										
4.					Total Number of Dominant Species Across All Strata: 3 (B)					
5.					(2)					
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. 5 x 1 = 5					
	 Total Cover =	0			FACW spp. 0 x 2 = 0					
			_		FAC spp. 15 $x 3 = 45$					
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $61 \times 4 = 244$					
1.					UPL spp. 50 x 5 = 250					
2.										
3.					Total <u>131</u> (A) <u>544</u> (B)					
4.										
5.					Prevalence Index = B/A = 4.153					
6.										
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					Dominance Test is > 50%					
	Total Cover =	0			Prevalence Index is ≤ 3.0 *					
			_		Morphological Adaptations (Explain) *					
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Bromus inermis	50	Y	UPL						
2.	Poa pratensis	20	Y	FACU	* Indicators of hydric soil and wetland hydrology must be					
3.	Taraxacum officinale	20	Y	FACU	present, unless disturbed or problematic.					
4.	Apocynum cannabinum	15	Ν	FAC	Definitions of Vegetation Strata:					
5.	Symphyotrichum ericoides	10	Ν	FACU						
6	Helianthus maximiliani	5	Ν	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breas	r				
7.	Melilotus officinalis	5	Ν	FACU	height (DBH), regardless of height.					
8.	Doellingeria umbellata	5	Ν	OBL						
9.	Ambrosia artemisiifolia	1	Ν	FACU	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
10.	<u> </u>									
11.										
12.					Herb - All herbaceous (non-woody) plants, regardless of size.					
13.										
14.	[
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover =	131								
			_							
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? N					
5.										
4.										
	Total Cover =									
Remarks: The sample site is dominated by smooth brome, with a variety of herbs present as well, including dogbane, heath aster, and Maximillian's sunflower.										
,										
Additional Remarks:										