WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R Ephridge								Date:	09/18/14
Applicant: Investigators	5	Enbridge BEH/NTT			Subregio	n (MLRA	or LRR):	MLRA 56		County: State:	Marshall MN
Soil Unit:	S: BEH/NTT Subregion (MLRA or LRR): MLRA 56 I53A NWI Classification:									1	
Landform:	Talf		cal Relief:		045			Sample Point	u-155n45w28-e1		
Slope (%):	3 - 7%	nditions on the sit	Latitude: 48.21		Longitude:			<u>Datum:</u> ☑ Yes	□ No	Section:	
Are Vegetati	•	□, or Hydrology			al : (II no, e _{nt}		e normal circum			Township:	
Are Vegetati		□, or Hydrology	• •				⊠ Yes			Range:	Dir:
SUMMARY (of Findings	5									
Hydrophytic	-		No						s Present?		(atland)
Wetland Hyd Remarks:		sample point is lo	No No	hean field ur	a gradua	al slope f	rom a seasona			nt Within A W	/etland? No
Remarks.				bean neid, up	a gradua			ily-nooueu c	asin.		
HYDROLOG	Y										
Wetland Hy	drology Ind	icators (Check al	II that apply; Mi	nimum of on	e primary	or two se	econdary requi	red):			
Primary	<u>.</u>	·						/	Secondary:		- .
	A1 - Surface V A2 - High Wa				B11 - Salt (B13 - Aqua					B6 - Surface S B8 - Sparselv	Soil Cracks Vegetated Concave Surface
	A3 - Saturatio	n			C1 - Hydro	gen Sulfid	le Odor			B10 - Drainag	e Patterns
	B1 - Water Ma B2 - Sedimen				C2 - Dry Se		iter Table spheres on Living	Roote (not till		C3 - Oxidized C8 - Crayfish	Rhizospheres on Living Roots (tilled)
	B3 - Drift Dep	•			C3 - Oxidiz C4 - Prese					•	n Visible on Aerial Imagery
	B4 - Algal Ma	t or Crust			C7 - Thin N	Auck Surfa				D2 - Geomorp	phic Position
	B5 - Iron Depe B7 - Inundatio	osits In Visible on Aerial In	manery		Other (Exp	lain)				D5 - FAC-Neu D7 - Frost-Hea	utral Test aved Hummocks (LRR F)
	B9 - Water-St		nagery						_		
Field Obser											
Surface Wat		Yes □ Yes □	Depth		(in.)			Wetland H	lydrology	Present?	Ν
Water Table		Yes □ Yes □	Depth Depth		(in.) (in.)						
Saturation Present? Yes Depth:											
			vitoring well apr	ial photos pre		(actions)	if available:				
Describe Rec	orded Data (s	stream gauge, mor	-		evious insp	ections),	if available:				
	orded Data (s		-		evious insp	pections),	if available:				
Describe Rec Remarks: SOILS	orded Data (s No primary	stream gauge, mor or secondary hyd	Irological indica	itors were ob	evious insp <mark>served</mark> .						
Describe Rec Remarks: SOILS Profile Descr	orded Data (s No primary iption (Descri	stream gauge, mor or secondary hyd be to the depth ne	Irological indica	ntors were ob	evious insp served. cator or co	onfirm the	e absence of in				
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Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce	orded Data (s No primary iption (Descri	stream gauge, mon or secondary hyd be to the depth no etion, RM=Reduced M Matrix	Irological indication indicatination indication indication indication indication indicat	ntors were ob	evious insp served. cator or co	onfirm the tion: PL=Pe Mottle	e absence of in ore Lining, M=Matr	ix)			
Describe Rec Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	orded Data (s No primary iption (Descrintration, D=Deple	stream gauge, mon or secondary hyd be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to docur Matrix, CS=Covered	ntors were ob	evious insp served. cator or co Grains; Locat	onfirm the tion: PL=P	e absence of in ore Lining, M=Matr		Texture		Remarks
Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8	iption (Descrintration, D=Deple	stream gauge, mon or secondary hyd be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to docur Matrix, CS=Covered % 100	nent the indicated Sand Color (I	evious insp served. Cator or co Grains; Locat Moist)	onfirm the tion: PL=P Mottle	e absence of in ore Lining, M=Matr es Type	Location	SCL	fine sand	
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Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-8	iption (Descrintration, D=Deple	stream gauge, mon or secondary hyd be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1	eeded to docur Matrix, CS=Covered % 100	nent the indicated Sand Color (I	evious insp served. Cator or co Grains; Locat Moist)	onfirm the tion: PL=P Mottle	e absence of in ore Lining, M=Matr es Type	Location	SCL		
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-155n45w28-e1
VEGETATIO	N (Species identified in all uppercase a	re non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 1 (B)
5.					
6.	<u></u>				$P_{present of Deminant Species That Are OBLEACIAL or EAC: 0.0% (A/P)$
					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.	J				
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 3 x 4 = 12
	Total Cover =	= 0	FACW spp. 0 $x 2 = 0$		
					FAC spp. $0 x 3 = 0$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 3 x 4 = 12
<u>1.</u>		1			UPL spp. 55 X 5 = 275
2.		 1			
		1			
3.		1			Total <u>58</u> (A) <u>287</u> (B)
4.					
5.					Prevalence Index = B/A = <u>4.948</u>
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
10.	 Total Cover =	= 0			$\frac{1}{2} = \frac{1}{2} = \frac{1}$
		0	_		
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	55	Y	NI	
2.	Ambrosia artemisiifolia	3	N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6	1				Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
					hoight (DDL)), rogaidices of hoight.
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.					1
14.					1
15.	,				Woody Vines - All woody vines, regardless of height.
10.	I	50			
	Total Cover =	= 58	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.	<u>'</u>				
<u>т.</u>	Total Cover =	= 0			
Domortico					
Remarks:	The sample site is dominated by cultivated	soybean.			
Additional F	Remarks:				