WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/18/14	•
Applicant: Enbridge												Marshall	
Investigators: NTT/BEH				Subregion (MLRA or LRR): MLRA 56								MN	
Soil Unit:	I690A		_				NW	I Classification	:		1		
Landform:	Depression				Lo	cal Relief:	CC				Sample Point	: w-155n45w28-h1	
Slope (%):	3 - 7%		Latitude: 48	8.215	5105	Longitude	-96.440)771	Datum:		1		
Are climatic/	hydrologic co	nditions on the site	typical fo	or this	s time of yea	ar? (If no, ex	plain in rema	arks)		□ No	Section:		
Are Vegetation	on 🛭 Soil	□, or Hydrology	⊏significa	antly	disturbed?		Are	e normal circun	nstances pre	esent?	Township:		
Are Vegetation		□, or Hydrology	•	•					□ No		Range:	Dir:	
SUMMĂRY (Ü		
			Ye	es					Hvdric Soi	Is Present?	Yes		
Hydrophytic Vegetation Present? Wetland Hydrology Present?				Yes				Is This Sampling Poir				etland? Yes	
Remarks:		d is a shallow marsl			ent to a farn	ned sovbe	an field.	Dominant plan					
				,						ourself grad			
HYDROLOG	Y												
		Santana (Olamballa)	(1 - (1	N 41									
_	•	icators (Check all t	that apply	/; Mir	nimum of on	e primary	or two s	econdary requi	red):				
<u>Primary</u>		Mata:				D44 C=4	O			Secondary:		Dail Oranles	
	A1 - Surface \A2 - High Wa					B11 - Salt		•			B6 - Surface S		
☑	A3 - Saturatio			□ B13 - Aquatic Fauna □ □ C1 - Hydrogen Sulfide Odor □							B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns		
	B1 - Water M											Rhizospheres on Living Roots (til	lled)
	B2 - Sedimen	t Deposits				C3 - Oxidiz	zed Rhizos	spheres on Living	Roots (not till	€ □	C8 - Crayfish		,
□ B3 - Drift Deposits □ C4 - Presence of Reduced Iron										n Visible on Aerial Imagery			
	B4 - Algal Ma					C7 - Thin I		ace			D2 - Geomorp		
	B5 - Iron Dep	osits _I n Visible on Aerial Ima	agory,			Other (Exp	olain)				D5 - FAC-Neu	itrai Test aved Hummocks (LRR F)	
	B9 - Water-St		agery								D7 - F1051-He	aved Hullillocks (LKK F)	
	20 114(8) 0	aniod Loavoo											
Field Obser	vations												
Surface Wat		Voc. □	D	onth:		(in)							
		Yes		epth:		(in.)			Wetland F	lydrology F	Present?	Υ	
Water Table		Yes		epth:		_ (in.)							
Saturation D		Voc 🔟				/In \							
Saturation P	resent?	Yes ☑	De	epth:	0	(in.)							
		Yes ☑ stream gauge, monit				- ` ′	pections),	, if available:					
	corded Data (s		toring well,			- ` ′	pections),	, if available:					
Describe Rec	corded Data (s	stream gauge, monit	toring well,			- ` ′	pections),	, if available:					
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Describe Rec Remarks: SOILS Profile Descri	sorded Data (s Soils are sa iption (Descri	stream gauge, monitoring turated at the surface be to the depth needs	toring well,	, aeria	al photos, pro	evious insp	onfirm th	e absence of ir					
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Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	sorded Data (s Soils are sa iption (Descri	be to the depth need to the Reduced Matrix Color (Moist)	toring well, ace. eded to do atrix, CS=Cov	ocum	al photos, pronent the indi	evious insp cator or co Grains; Loca	onfirm th tion: PL=P Mottl	e absence of ir ore Lining, M=Matr	rix)			Remarks	
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Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-14 14-18 NRCS Hydr	Soils are sa Soils are sa iption (Descri ntration, D=Deple Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth need to the surface of the depth need to the depth	toring well, ace. eded to do atrix, CS=Cov	% 100 100 if indi	al photos, pro- nent the indi /Coated Sand of Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or cograins; Loca Moist) Moist) not preser edox Matrix Mucky Miner	mottl Mottl w tion: PL=P	e absence of in fore Lining, M=Matr es Type	Location	MMI CL C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su	luck (LRR I, J) Prairie Redox urface (LRR G)	c Soils ¹ (LRR F, G, H)	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: w-155n45w28-h1
VEGETATIO		e non-native	e species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					(
6.					Develops of Demineral Charles That Are ODL FACIAL or FAC: 100 09/ (A/D)
					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. $60 x 1 = 60$
	Total Cover =	0			OBL spp. 60
	•				FAC spp. $0 \times 3 = 0$
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				FACII spp
	Citatum (1 lot size. 15 it. radius)				LIDI spp. 0 × 5 - 0
1.					OPL Spp.
2.					
3.					Total 100 (A) 140 (B)
4.					
5.					Prevalence Index = B/A = 1.400
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
					· · · · · · · · · · · · · · · ·
10.					X Dominance Test is > 50%
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Typha X glauca	60	Υ	OBL	
2.	Phalaris arundinacea	40	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	1 Halans aranamassa		<u> </u>	171011	present, unless disturbed or problematic.
					·
4.					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.					
					Libraria All horhogogus (non woody) plants, regardless of size
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	100			
	Total Gover =	100			
M/ = = = b = \ // = = = 0	that was (Diet aire a coo to an alive)				
vvoody vine S	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =	0			
Remarks:	Vegetation is consistent throughout the mars		d capary o	race and l	hybrid cattail dominant
itemaiks.	vegetation is consistent throughout the mars	iii witti iee	d carrary g	ilass aliu i	Tybrid Cattaii dominant.
Additional I	Remarks:				