WETLAND DETERMINATION DATA FORM Great Plains Region

- · · · / O · ·		li o B	T								T	00/11/11
Project/Site: L3R Applicant: Enbridge											Date: County:	08/14/14 Maraball
Applicant: Enbridge Investigators: BEH/MRK				Subregion (MLRA or				or I DD\	or LRR): MLRA 56			Marshall MN
Soil Unit:	U .					Subregion	•	l Classification:			State:	IVIIN
Landform:					Lo	nal Raliaf		Classification.			Sample Point:	w-156n46w17-d1
Slope (%):										•		W 1001140W17 G1
		nditions on the site				_			Datum: ☑ Yes	□ No	Section:	
, ,				-				e normal circumstances present?			Township:	
Are Vegetation			□aturally	-				✓ Yes	□ No		Range:	Dir:
SUMMARY C		, ,	,								3	
Hydrophytic \			Yes	es					Hydric Soi	Is Present?	Yes	
	/etland Hydrology Present?					•		Is This Sampling Poin				etland? Yes
Remarks:			located wit	thin a	a roadside d	ditch domi	nated by	reed canary gi				is between a gravel road and
	soybean fie							, 0				, and the second
HYDROLOG												
	drology Ind	icators (Check all t	that apply;	; Mini	imum of on	e primary	or two se	econdary requi	red):	Secondary		
Pilitiary. □ A1 - Surface Water				Secondary: □ B11 - Salt Crust □								oil Cracks
						B13 - Aqua						/egetated Concave Surface
	A3 - Saturation					C1 - Hydro					B10 - Drainage	
	B1 - Water M			□ C2 - Dry Season Water Table □ □ C3 - Oxidized Rhizospheres on Living Roots (not till □ □ C4 - Presence of Reduced Iron □							C3 - Oxidized Rhizospheres on Living Roots (tilled) C8 - Crayfish Burrows	
	B2 - Sedimen B3 - Drift Dep	•									-	i Visible on Aerial Imagery
	B4 - Algal Ma					C7 - Thin M			D2 - Geomorpi			
	B5 - Iron Dep	osits		☐ Other (Explain) ☐							D5 - FAC-Neut	ral Test
		on Visible on Aerial Ima	agery								D7 - Frost-Hea	ved Hummocks (LRR F)
	B9 - Water-S	tained Leaves										
Field Observe												
Field Observ			_			<i>(</i> ;)						
Surface Water		Yes		Depth: (in.)					Wetland F	Hydrology	Present? Y	
Water Table Present? Yes				Depth: (in.)				,				
Saturation Present? Yes				Depth: (in.)								
Docariba Boo	/ -											
Describe Reco	orded Data (s	stream gauge, monito	oring well, a	aeria	I photos, pre	evious insp	ections),	if available:				
Remarks:	<u>`</u>	stream gauge, monitor an area that would							he FAC-Ne	eutral test.		
Remarks:	<u>`</u>								he FAC-Ne	eutral test.		
Remarks:	The ditch is	an area that would	d hold wate	er for	portions of	the year a	and vege	etation passes t		eutral test.		
Remarks: SOILS Profile Descri	The ditch is	an area that would	d hold wate	er for	portions of	the year a	and vege	etation passes to	dicators.)	eutral test.		
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Remarks: SOILS Profile Descri	The ditch is	an area that would be to the depth nee etion, RM=Reduced Mat	d hold wate	er for	portions of	the year a	and vege	etation passes to e absence of in ore Lining, M=Matr	dicators.)	eutral test.		
Remarks: SOILS Profile Descri (Type: C=Concer	The ditch is	an area that would be to the depth need etion, RM=Reduced Materix	eded to do	ocume vered/0	portions of ent the indic Coated Sand C	the year a	onfirm the	etation passes to e absence of in ore Lining, M=Matr	dicators.)			Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer	The ditch is	an area that would be to the depth need etion, RM=Reduced Materix Matrix Color (Moist)	eded to do	ocume/ered/0	ent the indicated Sand Coolor (I	cator or co	end vege	e absence of incore Lining, M=Matr	dicators.)			Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	The ditch is iption (Description, Depoint of the ditch is interest of the ditch is interest.	an area that would be to the depth need etion, RM=Reduced Materix Color (Moist) Indicators (cheen)	eded to do	cume/ered/0	ent the indicated Sand Coated Sand Coated Sand Color (I	cator or co	end vege	e absence of incore Lining, M=Matr	dicators.) Location	Texture Indicators f A9 - 1 cm M	luck (LRR I, J)	: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	The ditch is iption (Description, Depointmentation, Depointmentation, Depointmentation, Description (Description) and the interest of the inte	an area that would be to the depth need etion, RM=Reduced Material Matrix Color (Moist) Indicators (checking)	eded to do	scume vered/0	ent the indicated Sand Coated Sand Sandy Research	cator or co Grains; Locat Moist)	mod vege onfirm the dion: PL=Po	e absence of incore Lining, M=Matr	dicators.) Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	The ditch is iption (Description, Depointmentation, Depointmentati	an area that would be to the depth need etion, RM=Reduced Material Matrix Color (Moist) Indicators (checking the color stice)	eded to do	ocume/ered/0	cators are notes of the stripped F1 - Loamy M	cator or co Grains; Locat Moist) oot present	mond vege onfirm the ion: PL=Po Mottle %	e absence of incore Lining, M=Matr	dicators.) ix) Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) : Prairie Redox (urface (LRR G)	: Soils¹ LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	The ditch is iption (Description (Description, Depoint of the property of the	an area that would be to the depth need etion, RM=Reduced Material Matrix Color (Moist) Indicators (checking Sulfide)	eded to do	f indic	cators are no S5 - Sandy Ross - Stripped F1 - Loamy WF2 - Loamy G	cator or co Grains; Locat Moist) ot present	mond vege onfirm the ion: PL=Po Mottle %	e absence of incore Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic	: Soils ¹
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	The ditch is iption (Description, D=Deplete A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	an area that would be to the depth need etion, RM=Reduced Materian Matrix Color (Moist) Indicators (check in Sulfide Layers (LRR FGH) and Below Dark Surface eark Surface	eded to doo	f indic	cators are notes and Coated Sand Coated Sa	cator or co Grains; Locat Moist) oot present edox Matrix lucky Minera eleyed Matrix Matrix ark Surface Dark Surfa epressions	montile when the confirm the confirmation.	e absence of inore Lining, M=Matres Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressioned Vertic Parent Material	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	: L3R				Sample Point: w-156n46w17-d1
VEGETATIO	N (Species identified in all uppercase ar	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					(, 4
4.					Total Number of Dominant Species Across All Strata: 2 (B)
					Total Number of Dominant Species Across All Strata(D)
5.					400 00((4 (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: Multiply by:
10.					OBL spp. $\frac{25}{}$ $\times 1 = \frac{25}{}$
	Total Cover =	0			OBL spp. $\frac{25}{50}$
			_		FAC spp. 5 $\times 3 = 15$
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 30 $x 4 = 120$
	Stratum (Flot Size. 13 ft. radius)				FACU spp. $\frac{30}{0}$ $x = 4 = \frac{120}{0}$ UPL spp. $\frac{30}{0}$ $x = 5 = 0$
1.	_				UPL spp. $0 x 5 = 0$
2.					T
3.					Total 110 (A) 260 (B)
4.					
5.					Prevalence Index = B/A = 2.364
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
	Total Cover =				
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	45	Y	FACW	
2.	Typha latifolia	25	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Lotus corniculatus	20	N	FACU	present, unless disturbed or problematic.
4.	Cirsium arvense	5	N	FACU	Definitions of Vegetation Strata:
5.	Sonchus arvensis	5	N	FAC	
6		5	N	FACU	Troe - Weeds plants 2 in (7 Care) as reason in diameter at breast
	Elymus repens				Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.	Symphyotrichum lanceolatum	5	N	FACW	noight (BBH), regardless of height.
8.					Both to the telephone that the BBH are allowed to the telephone that the bath the ba
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.
	Total Cover =	110			
	Total Cover =	110	_		
144.	(D) (D) (1) (D) (1) (D) (1)				
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =	0			
Remarks:	The sample point dominated by reed canary		broad-lea	f cattail	
r Cinaino.	cample point dominated by reed carrary	grado ana	STOUGHTON	. Januii.	
Additional F	Remarks:				