## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/31/14
Applicant:		Enbridge			0 1 .	/A 41 D A	1.00)	M D 4 50		County:	Marshall
Investigators		BCS/BEH/MRK			Subregio	•	or LRR):	MLRA 56		State:	MN
Soil Unit: Landform:	I24A			_	ool Doliefu		I Classification:			Commis Deint	w 457p47w26_c4
Slope (%):	Dip 0 - 2%		Latitude: 48.3		cal Relief:		9321667	Datum	•	Sample Point:	w-157n47w26-a1
		onditions on the site						✓ Yes	□ No	Section:	
Are Vegetation			significantl		<b>41 1</b> (11 110; 0X)		e normal circun			Township:	
Are Vegetation			□aturally pr			/	✓ Yes		0001111	Range:	Dir:
SUMMARY C			je i					. 10		9	
Hydrophytic \	Vegetation P	resent?	Yes					Hydric Soi	Is Present?	Yes	
Wetland Hyd	•		Yes					Is This Sa	mpling Poir	nt Within A We	etland? <b>Yes</b>
Remarks:	The wetland	d is a sparsely-vege	etated, seaso	onally-flooded	basin loca	ated with	in a tilled, agrid	cultural soyl	oean field a	nd dominated	by sprangletop and biennia
	wormwood.										
<b>HYDROLOG</b>	Υ										
Wetland Hy	drology Ind	icators (Check all	that apply: M	linimum of on	e primary	or two se	econdary requi	red):			
Primary:					о р <b>у</b>				Secondary:	<u>:</u>	
	A1 - Surface				B11 - Salt (				V	B6 - Surface S	
	A2 - High Wa A3 - Saturation				B13 - Aqua				<b>☑</b>	B8 - Sparsely \ B10 - Drainage	Vegetated Concave Surface
	B1 - Water M				C1 - Hydro C2 - Dry Se				П		Rhizospheres on Living Roots (til
	B2 - Sedimer						spheres on Living	Roots (not til	le 🗀	C8 - Crayfish E	
	B3 - Drift Dep						duced Iron	·			Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace		☑	D2 - Geomorpl D5 - FAC-Neut	
	B5 - Iron Dep B7 - Inundation	on Visible on Aerial Ima	agery	П	Other (Exp	iairi)					aved Hummocks (LRR F)
		tained Leaves								27 110011100	(,
Field Observ	vations:										
Surface Wate	er Present?	Yes □	Deptl	າ:	(in.)			Wetland H	Hydrology	Present?	Υ
Water Table		Yes □	Deptl	n:	(in.)			vvctiana i	iyarology	i resent:	<u>.</u>
Saturation Pr	resent?	Yes □	Deptl	n:	_ (in.)						
				'	_						
Describe Reco	orded Data (	stream gauge, monit	oring well, ae	rial photos, pr	evious insp	ections),	if available:				
Describe Reco	<u> </u>	stream gauge, monit I cracking and spar						a low-lying	area of the	field.	
Remarks:	<u> </u>							a low-lying	area of the	field.	
Remarks:	Surface soi	I cracking and spar	se vegetatio	n are present	, and the v	vetland is	s positioned in		area of the	field.	
Remarks:  SOILS Profile Descri	Surface soi	I cracking and spar	rse vegetatio	n are present	and the v	vetland is	s positioned in e absence of ir	dicators.)	area of the	field.	
Remarks:  SOILS Profile Descri	Surface soi	I cracking and spar	rse vegetatio	n are present	and the v	vetland is	s positioned in e absence of ir	dicators.)	area of the	field.	
Remarks:  SOILS Profile Descri	Surface soi	I cracking and spar	rse vegetatio	n are present	and the v	vetland is	s positioned in e absence of in ore Lining, M=Matr	dicators.)	area of the	field.	
Remarks:  SOILS Profile Descri	Surface soi	I cracking and spar ibe to the depth nee letion, RM=Reduced Ma	rse vegetatio	n are present	and the v	onfirm the	s positioned in e absence of in ore Lining, M=Matr	dicators.)	area of the Texture	field.	Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	Surface soi	I cracking and spar ibe to the depth nee letion, RM=Reduced Ma Matrix Color (Moist)	eded to docu	ment the indi	and the v	onfirm the	e absence of in ore Lining, M=Matr	idicators.)		field.	Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15	Surface soi	ibe to the depth need to the d	eded to docu	ment the indi	cator or co	onfirm the	e absence of inore Lining, M=Matres  Type	dicators.) ix)  Location	Texture SIC	field.	Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15	Surface soi	ibe to the depth need to the d	eded to docu	ment the indi	cator or co	onfirm the	e absence of inore Lining, M=Matres  Type	dicators.) ix)  Location	Texture SIC	field.	Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15	Surface soi	ibe to the depth need to the d	eded to docu	ment the indi	cator or co	onfirm the	e absence of inore Lining, M=Matres  Type	dicators.) ix)  Location	Texture SIC	field.	Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15	Surface soi	ibe to the depth need to the d	eded to docu	ment the indi	cator or co	onfirm the	e absence of inore Lining, M=Matres  Type	dicators.) ix)  Location	Texture SIC	field.	Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15	Surface soi	ibe to the depth needletion, RM=Reduced Ma  Matrix  Color (Moist)  2/1 4/2	eded to docu etrix, CS=Covere	ment the indi	cator or co	onfirm the	e absence of inore Lining, M=Matres  Type	dicators.) ix)  Location	Texture SIC	field.	Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-26  NRCS Hydr	Surface soil  Iption (Descriptor) Intration, D=Dep  Hue_10YR Hue_5Y  Fic Soil Field  A1- Histosol	I cracking and spar libe to the depth needletion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  4/2  I Indicators (che	eded to docu etrix, CS=Covere	ment the indicators are r	cator or co Grains; Local Moist)  4/2  not presented	onfirm the	e absence of inore Lining, M=Matr	Location  M	Texture SIC SIC SIC	for Problematic	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-26  NRCS Hydr	Surface soi  ption (Description, D=Dep  Hue_10YR Hue_5Y  A1- Histosol A2 - Histic Ep	ibe to the depth need letion, RM=Reduced Matrix  Color (Moist)  2/1 4/2  Indicators (checking and spar	eded to docu etrix, CS=Covere	ment the indicators are r	cator or co Grains; Local Moist)  4/2  not present	mottle  Mottle  %  15  t):	e absence of inore Lining, M=Matr	Location  M	Texture SIC SIC Indicators 1 A9 - 1 cm M A16 - Coast	for Problematic fuck (LRR I, J) t Prairie Redox (	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-26  NRCS Hydr	Surface soil  ption (Description, D=Dep  Hue_10YR Hue_5Y  Tic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black Hi	ibe to the depth need letion, RM=Reduced Markix  Color (Moist)  2/1  4/2  Indicators (checking and spar	eded to docu etrix, CS=Covere % 100 85	ment the indicators are response of the stripped of the stripp	cator or co Grains; Local Moist)  4/2  not presentedox Matrix Mucky Minera	mottle  Mottle  15  15  t):	e absence of inore Lining, M=Matr	Location  M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemation  Muck (LRR I, J)  Prairie Redox ( urface (LRR G)	Soils <sup>1</sup> LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-26  NRCS Hydr	Surface soi  ption (Description, D=Dep  Hue_10YR Hue_5Y  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	ibe to the depth need letion, RM=Reduced Markix  Color (Moist)  2/1  4/2  Indicators (checking and spar	eded to docu etrix, CS=Covere % 100 85	ment the indicators are respectively.  S5 - Sandy Res6 - Stripped F1 - Loamy New F2 - Loamy Care F3 - Depleted	cator or co Grains; Local Moist)  4/2  not presented a Matrix Mucky Mineral Matrix I Matrix	mottle  Mottle  %  15  t):	e absence of inore Lining, M=Matr	Location  M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problemation  Muck (LRR I, J)  The Prairie Redox (  Surface (LRR G)  Plains Depression  Seed Vertic	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-26  NRCS Hydr	Hue_10YR Hue_5Y  Fic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth need letion, RM=Reduced Matrix  Color (Moist)  2/1  4/2  Indicators (check the stice in Sulfide is Layers (LRR F) lick (LRR FGH)	eded to documents, CS=Covered % 100 85	ment the indicators are respectively.  Solvent and the indicators are respectively.  Solvent and the indicators are respectively.  Solvent and the indicators and the indicators and the indicators and the indicators are respectively.  Solvent and the indicators and the indicators and the indicators are respectively.  Solvent and the indicators are respectively.  Solvent and the indicators and the indicators are respectively.  Solvent and the indicators are respectively.	cator or co Grains; Local Moist)  4/2  not presented with the control of the cont	mottle  Mottle  15  t):	e absence of inore Lining, M=Matr	Location  M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	for Problemation  Muck (LRR I, J)  The Prairie Redox ( Uniface (LRR G)  Plains Depression  Ced Vertic  Parent Material	E Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-15 15-26  NRCS Hydr	Hue_10YR Hue_5Y  A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	I cracking and spar libe to the depth need letion, RM=Reduced Matrix  Color (Moist)  2/1 4/2  Indicators (checking and spar)  Sipedon stic (checking and spar)  Sipedon stic (checking and spar)  Sipedon (checking and spar)	eded to documents, CS=Covered % 100 85	ment the indicators are respectively.  Standard Sandard Sandar	cator or constraints; Local  Moist)  4/2  Allow Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surface	mottle  Mottle  15  t):	e absence of inore Lining, M=Matr	Location  M	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very	for Problemation  Muck (LRR I, J)  Prairie Redox ( urface (LRR G)  Plains Depression ced Vertic  Parent Material  Shallow Dark S	E Soils <sup>1</sup> 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-157n47w26-a1
VEGETATIO		e non-native	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:1 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					<u></u> ` ` '
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
7.					(1 0 10 0 11 0 11 0 11 0 11 0 11 0 11 11
8.					Prevalence Index Worksheet
					-
9.					Total % Cover of: Multiply by:
10.					OBL spp. $\frac{2}{2}$ $\times$ 1 = $\frac{2}{2}$
	Total Cover =	0	FACW spp. $10$ $\times$ $2 = 20$		
					OBL spp. 2
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
1.					UPL spp. $2   X   5 = 10$
2.		_			
3.					Total 19 (A) 52 (B)
4.					`` <i>`</i>
5.					Prevalence Index = B/A = 2.737
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					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.	Leptochloa fusca	10	Υ	FACW	rroblem riyarophytic vegetation (Explain)
2.				FACU	* Indicators of hydric soil and wetland hydrology must be
	Artemisia biennis	5			present, unless disturbed or problematic.
3.	Typha angustifolia	2	N N	OBL	
4.	Glycine max	2	N	NI	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.					1
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					1
					Llowb All herbaceous (non-woody) plants, regardless of size
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	19			1
	,		_		
Woody Vine S	tratum (Plot size: 30 ft. radius)				
	tratum (Flot size. 30 ft. radius)				4
1.					
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =	0			
Remarks:	The wetland sample area is dominated by sp	rangletop	and bienn	ial wormw	vood.
		i di i gi di ap			
Additional I	Remarks:				