## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	•									Date: 08/04/14		
Applicant: Enbridge					0	/N 41 D /	County: Marshall					
	nvestigators: BCS/KRG				_Subregic	•	State: MN					
Soil Unit:	I24A		-	aal Daliaf	I Classification	:		O I. D.: 1. w 4FFp4Fw49.e4				
Landform: Depression Local Relief: CL Sample Point: w-155n45w18-e1 Slope (%): 0 - 2% Latitude: 48.24448217 Longitude: -96.4792355000 Datum:												
Slope (%):		nditions on the site typic						Datum: ✓ Yes	□ No	Section:		
					ai: (ii no, ex		e normal circur			•		
Are Vegetation  Are Vegetation			•	disturbed? olematic?		Air	e normal circui ☑ Yes		556111.9	Township: Range: Dir:		
SUMMARY C			rally prok	olemane:			₾ 163	□ 1 <b>10</b>		Range: Dir:		
Hydrophytic \			Yes					Hydric Soil	ls Present?	Ves		
Wetland Hyd	•		Yes		_					nt Within A Wetland? Yes		
Remarks:				ed by slim-s	stem reed	orass an	d rough bent a					
Remarks: The wetland is a fresh wet meadow dominated by slim-stem reed grass and rough bent grass. The wetland is located in a roadside ditch adjacent to a gravel county road.												
HYDROLOGY												
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):												
Primary:		icators (Check all that a	ppiy; iviir	nimum of or	ne primary	or two s	econdary requi	irea):	Secondary:			
	<u>.</u>	Water		П	B11 - Salt	Crust				B6 - Surface Soil Cracks		
	A2 - High Wa				B13 - Aqu		1			B8 - Sparsely Vegetated Concave Surface		
✓	A3 - Saturation				C1 - Hydro					B10 - Drainage Patterns		
	B1 - Water M				C2 - Dry S			Desta (see Cill		C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen B3 - Drift Dep	•					spheres on Living educed Iron	Roots (not till	<b>€</b> □	C8 - Crayfish Burrows C9 - Saturation Visible on Aerial Imagery		
	B4 - Algal Ma				C7 - Thin				✓	D2 - Geomorphic Position		
	B5 - Iron Dep	osits			Other (Exp	olain)			✓	D5 - FAC-Neutral Test		
		on Visible on Aerial Imagery								D7 - Frost-Heaved Hummocks (LRR F)		
	B9 - Water-S	tained Leaves										
Field Observ	votiono											
Field Observ		V	D (1		(i.e. \							
Surface Wate		Yes	Depth:		_ (in.)			Wetland H	lydrology	Present? Y		
Water Table		Yes   Vec	Depth:		_ (in.)					<del></del>		
Saturation Present? Yes ☑ Depth:0 (in.)												
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
	<u> </u>		-			pections),	if available:					
Remarks:	<u> </u>	stream gauge, monitoring saturated at the surface.	-			pections),	if available:					
Remarks:	<u> </u>		-			pections),	, if available:					
Remarks:	The soil is s	saturated at the surface.	Algal ma	ats are also	present.	,		ndicators )				
Remarks:  SOILS Profile Descri	The soil is s	saturated at the surface.	Algal ma	ats are also	present.	onfirm th	e absence of ir					
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Remarks:  SOILS Profile Descri	The soil is s	saturated at the surface.	Algal ma	ats are also	present.	onfirm th	e absence of ir ore Lining, M=Mat					
Remarks:  SOILS Profile Descri (Type: C=Concer	The soil is s	saturated at the surface.  ibe to the depth needed to the depth needed to the depth needed Matrix, CS  Matrix	Algal ma	nent the ind //Coated Sand	present.  icator or c Grains; Loca	onfirm th	e absence of ir ore Lining, M=Mat		Texture	Remarks		
Remarks:  SOILS Profile Descri	The soil is s	saturated at the surface.  ibe to the depth needed to etion, RM=Reduced Matrix, CS	Algal ma to docum S=Covered	ats are also	present.  icator or c Grains; Loca	onfirm th ation: PL=P Mottl	e absence of ir ore Lining, M=Mat	rix)	Texture	Remarks		
Remarks:  SOILS Profile Descri (Type: C=Concer	The soil is s	saturated at the surface.  ibe to the depth needed to the depth needed to the depth needed Matrix, CS  Matrix	Algal ma to docum S=Covered	nent the ind //Coated Sand	present.  icator or c Grains; Loca	onfirm th ation: PL=P Mottl	e absence of ir ore Lining, M=Mat	rix)	Texture	Remarks		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	The soil is s	saturated at the surface.  ibe to the depth needed to etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)	Algal ma	nent the ind /Coated Sand	icator or c Grains; Loca (Moist)	onfirm thation: PL=P	e absence of interest in the core Lining, M=Materials  es  Type	rix)	Texture	Remarks		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Description, D=Depl	saturated at the surface.  ibe to the depth needed to etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)	Algal material materi	nent the ind /Coated Sand Color (	present.  icator or c Grains; Loca  (Moist)  not preser	onfirm thation: PL=P	e absence of interest in the core Lining, M=Materials  es  Type	Location	Indicators f	for Problematic Soils <sup>1</sup>		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Description, Depoint Intration, Depoint Int	ibe to the depth needed to etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  Indicators (check head)	Algal material materi	nent the ind /Coated Sand	icator or c Grains; Loca (Moist) not preser	onfirm thation: PL=P	e absence of interest in the core Lining, M=Materials  es  Type	Location	Indicators f A9 - 1 cm M			
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Description, D=Deplementation, D=Depleme	ibe to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  Indicators (check heading to be proposed on estice)	Algal material materi	cats are also nent the ind /Coated Sand Color ( icators are S5 - Sandy F S6 - Stripped F1 - Loamy I	icator or c Grains; Loca (Moist) not preser	onfirm the ation: PL=P  Mottl %  nt):	e absence of interest in the core Lining, M=Materials  es  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	For Problematic Soils  luck (LRR I, J)  Prairie Redox (LRR F, G, H)  urface (LRR G)		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Description, Depoint Intration, Depoint Int	ibe to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  Indicators (check heading stice in Sulfide)	Algal materials and algal	cats are also nent the ind /Coated Sand Color ( Color ( S5 - Sandy F S6 - Stripped F1 - Loamy I F2 - Loamy I	icator or congrains; Local (Moist)  not preser Redox d Matrix Mucky Miner Gleyed Matrix	onfirm the ation: PL=P  Mottl %  nt):	e absence of interest in the core Lining, M=Materials  es  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	For Problematic Soils <sup>1</sup> Suck (LRR I, J)  Prairie Redox (LRR F, G, H)  Purface (LRR G)  Plains Depressions (LRR H, outside MLRA 72, 73)		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Description, D=Deplementation, D=Depleme	saturated at the surface.  ibe to the depth needed to etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  Indicators (check he sipedon stic in Sulfide in Sulfide in Layers (LRR F)	Algal materials and algal	coated Sand Color ( Costed Sand Color ( Costed Sand Color ( Co	icator or congrains; Local (Moist)  not preser Redox d Matrix Mucky Miner Gleyed Matrix d Matrix	mottl  Mottl  %  nt):	e absence of interest in the core Lining, M=Materials  es  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	For Problematic Soils <sup>1</sup> Fluck (LRR I, J)  Prairie Redox (LRR F, G, H)  Flains Depressions (LRR H, outside MLRA 72, 73)  Freed Vertic		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Description, D=Deplementation, D=Depleme	ibe to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  Indicators (check heading stice in Sulfide in Layers (LRR F) ck (LRR FGH)	Algal mass of documes and second seco	coated Sand Color ( Costed Sand Color ( Costed Sand Color ( Co	icator or c Grains; Loca (Moist) (Moist) not preser Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface	onfirm the ation: PL=P  Mottl %  nt):	e absence of interest in the core Lining, M=Materials  es  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	For Problematic Soils <sup>1</sup> Soluck (LRR I, J)  Prairie Redox (LRR F, G, H)  surface (LRR G)  Plains Depressions (LRR H, outside MLRA 72, 73)  Seed Vertic  Parent Material		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Description, D=Deplementation, D=Depleme	saturated at the surface.  ibe to the depth needed to etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  Indicators (check he bipedon stic in Sulfide in Sulfide in Layers (LRR F) ick (LRR FGH) ick (LRR FGH) ich Below Dark Surface	so docum S=Covered % ere if ind	coated Sand Color ( Costed Sand Color ( Costed Sand Color ( Co	icator or congrains; Local (Moist)  not preser Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface	onfirm the ation: PL=P  Mottl %  nt):  ral ix eace	e absence of interest in the core Lining, M=Materials  es  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	For Problematic Soils <sup>1</sup> Fluck (LRR I, J)  Prairie Redox (LRR F, G, H)  Flains Depressions (LRR H, outside MLRA 72, 73)  Freed Vertic		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Descrintration, D=Deplementation, D=Deplementation)  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplementation A12 - Thick D S1 - Sandy M	ibe to the depth needed to etion, RM=Reduced Matrix.  Color (Moist)  Indicators (check heading to be stice in Sulfide in	so docum S=Covered  % ere if ind	icators are  S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	icator or c Grains; Loca (Moist) (Moist) not preser Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	monfirm the Mottle %  Mottle %  Int):	e absence of interest in the core Lining, M=Materials  es  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	For Problematic Soils <sup>1</sup> Juck (LRR I, J)  Prairie Redox (LRR F, G, H)  Jurface (LRR G)  Plains Depressions (LRR H, outside MLRA 72, 73)  Jured Vertic  Parent Material  Shallow Dark Surface		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Descrintration, D=Deplementation, D=Deplementation)  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	saturated at the surface.  ibe to the depth needed to etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  Indicators (check he objection is sulfide in Sulfide in Sulfide in Layers (LRR F) ick (LRR FGH) ick (LRR FGH) ick (LRR FGH) ich Below Dark Surface in Surface	so docum S=Covered  % ere if ind	icators are  S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	icator or c Grains; Loca (Moist) (Moist) not preser Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	monfirm the Mottle %  Mottle %  Int):	e absence of ir ore Lining, M=Mati es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	For Problematic Soils¹  Juck (LRR I, J)  Prairie Redox (LRR F, G, H)  urface (LRR G)  Plains Depressions (LRR H, outside MLRA 72, 73)  ced Vertic  Parent Material  Shallow Dark Surface  ain in Remarks)		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Descrintration, D=Deplementation, D=Deplementation)  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	ibe to the depth needed to etion, RM=Reduced Matrix  Color (Moist)  Indicators (check he bipedon stic in Sulfide in Layers (LRR F) ick (LRR FGH) ied Below Dark Surface in Surfa	so docum S=Covered  % ere if ind	icators are  S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	icator or c Grains; Loca (Moist) (Moist) not preser Redox d Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface Depressions	monfirm the Mottle %  Mottle %  Int):	e absence of ir ore Lining, M=Mati es Type	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reductor TF2 - Red FTF12 - Very Other (Explain Indicators of Market Page 14 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	For Problematic Soils¹  Juck (LRR I, J)  Prairie Redox (LRR F, G, H)  urface (LRR G)  Plains Depressions (LRR H, outside MLRA 72, 73)  ced Vertic  Parent Material  Shallow Dark Surface  ain in Remarks)		
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n45w18-e1				
					· · · · · · · · · · · · · · · · · · ·				
<b>VEGETATIO</b>	N (Species identified in all uppercase are	e non-native	species.)						
Tree Stratum	(Plot size: 30 ft. radius)								
	Species Name	% Cover	<b>Dominant</b>	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata: 4 (B)				
5.					·				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)				
7.					(742)				
8.					Prevalence Index Worksheet				
9.									
					Total % Cover of: Multiply by:				
10.	Total Cover	0			OBL spp. $\frac{11}{46}$ $x = \frac{11}{92}$ FACW spp. $\frac{46}{46}$ $x = \frac{92}{92}$				
	Total Cover =	0			FACW spp. $46$ $\times 2 = 92$				
					FAC spp. $\frac{16}{16}$ $\times 3 = \frac{48}{16}$				
	Stratum (Plot size: 15 ft. radius)			= 4 0 14 /	FACU spp. 2				
1.	Populus balsamifera	5	Y	FACW	UPL spp. $0   x   5 = 0$				
2.	Salix bebbiana	5	Υ	FACW					
3.	Salix petiolaris	2	N	OBL	Total75(A)159(B)				
4.	Salix discolor	2	N	FACW					
5.	Betula pumila	2	N	OBL	Prevalence Index = B/A = 2.120				
6.	Salix interior	2	N	FACW					
7.		<del></del>							
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.									
10.	Total Cover	10			<del></del>				
	Total Cover =	18	<del></del>		X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Calamagrostis stricta	20	Υ	FACW					
2.	Agrostis scabra	10	Υ	FAC	* Indicators of hydric soil and wetland hydrology must be				
3.	Epilobium leptophyllum	5	N	OBL	present, unless disturbed or problematic.				
4.	Phalaris arundinacea	5	N	FACW	Definitions of Vegetation Strata:				
5.	Epilobium ciliatum	5	N	FACW					
6	Sonchus arvensis	2	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Plantago major	2	N	FAC	height (DBH), regardless of height.				
8.	Solidago gigantea	2	N	FAC					
9.		2	N	FACU	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
	Elymus repens			OBL	Sapinig/Siliab - 11 sea, plante less than 5 km 221, regardless of height				
10.	Typha angustifolia	2	N						
11.	Spartina pectinata	2	N	FACW					
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 =	57							
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1	indian (Fiot 6)26. 66 ft. radias)								
2.									
3.					Hydrophytic Vogetation Brocont?				
					Hydrophytic Vegetation Present? Y				
5.									
4.	T								
	Total Cover =	0							
Remarks:	The wetland sample area is dominated by sli	m-stem re	ed grass a	and rough	bent grass, with a diverse array of forbs and graminoids interspersed throughout.				
Additional Remarks:									
Additional Nemarks.									
1									