WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/18/14	
Applicant:		Enbridge				.	(1.41.D.)		1415450		County:	Marshall	
Investigators		RAJ/BJC				_Subregio	•	A or LRR):	MLRA 56	2.1	State:	MN	
Soil Unit:	165A				1 -	l D . l' . (I Classification	: PEM/SS10	Ja –	-	455-400 (4	
Landform:	Terrace 0 - 2%		Latitude: 4	10 070		ocal Relief		0.4.4	Detuse		Sample Point	w-155n46w2-f1	
Slope (%):		onditions on the site					: -96.533		Datum:	□ No	Section:		
Are Vegetation		I □, or Hydrology				ar: (II 110, ex	1	e normal circur			Township:		
Are Vegetation			•	•				e normal circui ✓ Yes		CSCIII:	Range:	Dir:	
SUMMARY O			Hatarany	у ргов	nomatio:			E 163	110		rtange.	DII.	
			Υ	'es					Hydric Soil	ls Present?	Yes		
Hydrophytic Vegetation Present? Wetland Hydrology Present?				Yes				Hydric Soils Present? Yes Is This Sampling Point Within A Wetland? Yes					
Remarks:					od. peach-l	eaf willow.	and bro	ad-leaved sedo	_			and complex that a	lso includes
		nd shrub-dominate	•		•			•	,		pa o. a		
HYDROLOG													
	/drology Ind	icators (Check all	I that apply	y; Min	nimum of or	ne primary	or two s	econdary requi	red):	Secondary	,.		
	<u>.</u> A1 - Surface	Water				B11 - Salt	Crust			<u>Secondary</u>	<u>·</u> B6 - Surface S	Soil Cracks	
	A2 - High Wa	iter Table				B13 - Aqua						Vegetated Concave Su	urface
	A3 - Saturation					C1 - Hydro					B10 - Drainage		D ((:))
	B1 - Water M B2 - Sedimer					C2 - Dry S			Poots (not till		C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living	g Roots (tilled)
	B3 - Drift Der			□ C3 - Oxidized Rhizospheres on Living Roots (not till □ □ C4 - Presence of Reduced Iron □							-	วนกับพร n Visible on Aerial Imag	aerv
V	B4 - Algal Ma					C7 - Thin I				\checkmark	D2 - Geomorp	hic Position	97
	B5 - Iron Dep					Other (Exp	olain)			✓	D5 - FAC-Neu		
		on Visible on Aerial Im tained Leaves	nagery								D7 - Frost-Hea	aved Hummocks (LRR	(F)
	B9 - Water-O	tailled Leaves											
Field Obser	vations:												
Surface Wat		Yes □	D	Depth:		(in.)						.,	
Water Table		Yes		Depth:		– (in.)			Wetland H	lydrology	Present?	Υ	
Saturation P		Yes □		· Depth:		– `in.)						_	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Rec	corded Data (stream gauge moni	itoring well	aeria	al photos ni	evious inst	nections)	if available:					
	·					<u> </u>			osses throu	ahout the a	community Ir	ndicators of wetland	I hydrology
Describe Rec Remarks:	There are v	vater-stained leave				<u> </u>			osses throu	ghout the o	community. Ir	ndicators of wetland	l hydrology
	·	vater-stained leave				<u> </u>			osses throu	ghout the o	community. Ir	ndicators of wetland	l hydrology
Remarks: SOILS Profile Descri	There are vare present	vater-stained leave	es and a d	ried a	algal mat in	microdepi	ressions onfirm th	and wetland m	ndicators.)	ghout the c	community. Ir	ndicators of wetland	l hydrology
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Remarks: SOILS Profile Descri	There are vare present	vater-stained leave :. ibe to the depth ne letion, RM=Reduced Ma	es and a d	ried a	algal mat in	microdepi	onfirm th	and wetland m e absence of in ore Lining, M=Mati	ndicators.)	ghout the c	community. Ir	ndicators of wetland	l hydrology
Remarks: SOILS Profile Descri (Type: C=Concer	There are vare present	vater-stained leave i ibe to the depth ne letion, RM=Reduced Ma Matrix	es and a d	locum	algal mat in nent the ind Coated Sand	microdepoi icator or co Grains; Loca	onfirm th	and wetland m he absence of in fore Lining, M=Mati	ndicators.)		community. Ir		l hydrology
Remarks: SOILS Profile Descri (Type: C=Concer	There are vare present	ibe to the depth neletion, RM=Reduced Matrix Color (Moist)	es and a deeded to deatrix, CS=Co	ocum overed/	algal mat in	microdepoi icator or co Grains; Loca	onfirm th	and wetland m e absence of in ore Lining, M=Mati	ndicators.)	Texture		Remarks	l hydrology
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20	There are vare present iption (Description, Dependent intration, Dependent interation, Dependent intration, Dependent intration, Dependent interation, Dependent intration, Dependent intration, Dependent interation, Dependent intration, Dependent interation, Dependent int	ibe to the depth neletion, RM=Reduced Matrix Color (Moist) 2/1	es and a deeded to deatrix, CS=Co	locum overed/ % 100	nent the ind	icator or configurations; Local	onfirm thation: PL=P	and wetland me absence of interesting the second se	ndicators.)	Texture		Remarks	I hydrology
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20	There are vare present	ibe to the depth neletion, RM=Reduced Matrix Color (Moist) 2/1	es and a deeded to deatrix, CS=Co	locum overed/ % 100	algal mat in nent the ind Coated Sand	icator or configurations; Local	onfirm thation: PL=P	and wetland m he absence of in fore Lining, M=Mati	ndicators.)	Texture MMI	the mineral comp	Remarks conent is a fine sandy loam	I hydrology
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20 NRCS Hydr	There are vare present iption (Description, Dependent intration, Dependent interation, Dependent intration, Dependent intration, Dependent interation, Dependent intration, Dependent intration, Dependent interation, Dependent intration, Dependent interation, Dependent int	ibe to the depth neletion, RM=Reduced Matrix Color (Moist) 2/1	es and a deeded to deatrix, CS=Co	ocum overed/ % 100	nent the ind Coated Sand Color (microdepoi icator or co Grains; Loca (Moist)	onfirm thation: PL=P	and wetland me absence of interesting the second se	Location	Texture MMI	the mineral comp	Remarks conent is a fine sandy loam	I hydrology
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Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) 0-20 NRCS Hydr	There are vare present iption (Description, Depoint of the present	water-stained leave in the depth new letion, RM=Reduced Matrix Color (Moist) 2/1 I Indicators (chapping depth of the depth new letion, RM=Reduced Matrix Color (Moist) 2/1	es and a deeded to deatrix, CS=Co	ocumovered/	Color (Coated Sand) Cators are S5 - Sandy F S6 - Stripped F1 - Loamy I	icator or configuration of configuration	onfirm the Mottle %	and wetland me absence of interesting the second se	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S	the mineral comp for Problemation Muck (LRR I, J) t Prairie Redox Surface (LRR G)	Remarks conent is a fine sandy loam c Soils (LRR F, G, H)	
Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) 0-20 NRCS Hydr	There are vare present iption (Description (Description, D=Deportation, D=Deporta	water-stained leave in the depth new letion, RM=Reduced Matrix Color (Moist) 2/1 I Indicators (chappedon stice on Sulfide	es and a deeded to deatrix, CS=Co	if indi	cators are S5 - Sandy F S6 - Stripped F1 - Loamy F	microdepoint icator or configuration of configuration of configuration (Moist) Moist) Moist) Redox Mucky Miner Gleyed Matrix	onfirm the Mottle %	and wetland me absence of interesting the second se	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High	the mineral comp for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G)) Plains Depression	Remarks conent is a fine sandy loam Conect Soils Conect Soils	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-20 NRCS Hydr	There are vare present iption (Description (Description, D=Deportmentation, D=Deportmentation, D=Deportmentation) Hue_10YR A1- Histosol A2 - Histic Epox A3 - Black Histosol A4 - Hydroge A5 - Stratified	ibe to the depth neletion, RM=Reduced Matrix Color (Moist) 2/1 I Indicators (chappedon stic in Sulfide dayers (LRR F)	es and a deeded to deatrix, CS=Co	if indi	cators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete	microdepoint icator or configuration of configuration of configuration (Moist) Moist) Moist) Redox d Matrix Mucky Miner Gleyed Matrix d Matrix	messions onfirm the stion: PL=P Mottl % at): ral ix	and wetland me absence of interesting the second se	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High	the mineral comp for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G)) Plains Depression ced Vertic	Remarks conent is a fine sandy loam c Soils (LRR F, G, H)	
Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) 0-20 NRCS Hydr	There are vare present iption (Description (Description, D=Deportmentation, D=Deportmenta	water-stained leave in the depth new letion, RM=Reduced Matrix Color (Moist) 2/1 I Indicators (chappedon stice on Sulfide	es and a deeded to deatrix, CS=Co	if indi	cators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F	microdepoint icator or configuration of configuration of configuration (Moist) Moist) Moist) Redox d Matrix Mucky Miner Gleyed Matrix d Matrix	onfirm the tion: PL=P Mottl % attion: The properties of the tion in the tion	and wetland me absence of interesting the second se	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu	the mineral comp for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G)) Plains Depression	Remarks conent is a fine sandy loam C Soils (LRR F, G, H) CONS (LRR H, outside MLRA 72, 7	
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Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) 0-20 NRCS Hydr	There are vare present iption (Description, D=Depoint attention, D=Depoi	ibe to the depth nedletion, RM=Reduced Matrix Color (Moist) 2/1 I Indicators (characters) Sipedon Stic (characters) All Layers (LRR F) Color (LRR FGH)	es and a deeded to deatrix, CS=Co	if indi	cators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	microdepoint icator or configuration of configuration (Moist) (Moist) not preserved Matrix Mucky Miner Gleyed Matrix Dark Surfaced Dark Surfaced Dark Surfaced Dark Surfaced Depressions	onfirm the stion: PL=P Mottl % at): ral ix eace	and wetland me absence of interesting the second se	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red F TF12 - Very	the mineral composition of the mineral compositi	Remarks conent is a fine sandy loam C Soils (LRR F, G, H) CONS (LRR H, outside MLRA 72, 7)	
Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) 0-20 NRCS Hydr	There are vare present iption (Description (Description, D=Deportmentation, D=Deportmenta	ibe to the depth nedletion, RM=Reduced Matrix Color (Moist) 2/1 I Indicators (chapted on Stice on Sulfide of Layers (LRR F) lick (LRR FGH) led Below Dark Surface of Surface of Surface of Surface of Lucky Mineral Mucky Peat or Peat (L	eeded to deatrix, CS=Co	if indi	cators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	microdepoint icator or configuration of configuration (Moist) (Moist) not preserved Matrix Mucky Miner Gleyed Matrix Dark Surfaced Dark Surfaced Dark Surfaced Dark Surfaced Depressions	onfirm the stion: PL=P Mottl % at): ral ix eace	and wetland made absence of infore Lining, M=Mate	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red R TF12 - Very Other (Expl	the mineral comp for Problemation Muck (LRR I, J) t Prairie Redox (Curface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark Sain in Remarks)	Remarks conent is a fine sandy loam C Soils (LRR F, G, H) Cons (LRR H, outside MLRA 72, 7) Surface	73)
Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) 0-20 NRCS Hydr	There are vare present iption (Description, D=Deportmentation, D=Depor	ibe to the depth ne letion, RM=Reduced Marix Color (Moist) 2/1 Indicators (characters) Sipedon Stic (characters) Al Layers (LRR F) Color (LRR FGH) Color	eeded to deatrix, CS=Co	if indi	cators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	microdepoint icator or configuration of configuration (Moist) (Moist) not preserved Matrix Mucky Miner Gleyed Matrix Dark Surfaced Dark Surfaced Dark Surfaced Dark Surfaced Depressions	onfirm the stion: PL=P Mottl % at): ral ix eace	and wetland made absence of infore Lining, M=Mate	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High F18 - Redu TF2 - Red F TF12 - Very Other (Expl	the mineral comp for Problemation Muck (LRR I, J) t Prairie Redox Surface (LRR G) Plains Depression ced Vertic Parent Material y Shallow Dark S ain in Remarks)	Remarks conent is a fine sandy loam C Soils (LRR F, G, H) CONS (LRR H, outside MLRA 72, 7)	73)
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: w-155n46w2-f1		
VEGETATIO	(Species identified in all uppercase ar	re non-native	species.)				
Tree Stratum	(Plot size: 30 ft. radius)						
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet		
1.	Populus deltoides	40	Y	FAC			
2.	Salix amygdaloides	30	Y	FACW	Number of Dominant Species that are OBL, FACW, or FAC: (A)		
3.							
4.					Total Number of Dominant Species Across All Strata: 7 (B)		
5.					``,		
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)		
7.					(742)		
8.					Prevalence Index Worksheet		
9.					4		
					Total % Cover of: Multiply by:		
10.	Total Cayar	70			OBL spp. $\frac{105}{105}$ X 1 = $\frac{105}{105}$		
	Total Cover =	70			FACW spp. 80		
					FAC spp. 40 $x = 3 = 120$ FACU spp. 0 $x = 4 = 0$ UPL spp. 0 $x = 5 = 0$		
	Stratum (Plot size: 15 ft. radius)			0.51	FACU spp. $0 x 4 = 0 $ UPL spp. $0 x 5 = 0$		
1.	Salix petiolaris	30	Y	OBL	UPL spp. $0 x 5 = 0$		
2.	Salix bebbiana	20	Υ	FACW			
3.	Salix discolor	15	Y	FACW	Total <u>225</u> (A) <u>385</u> (B)		
4.							
5.					Prevalence Index = B/A = 1.711		
6.							
7.							
8.					Hydrophytic Vegetation Indicators:		
9.					Rapid Test for Hydrophytic Vegetation		
10.					X Dominance Test is > 50%		
10.		65			X Prevalence Index is ≤ 3.0 *		
	Total Cover =	00					
_					Morphological Adaptations (Explain) *		
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *		
1.	Carex aquatilis	50	Υ	OBL			
2.	Carex utriculata	20	Y	OBL	* Indicators of hydric soil and wetland hydrology must be		
3.	Phalaris arundinacea	15	N	FACW	present, unless disturbed or problematic.		
4.	Typha latifolia	5	N	OBL	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.					Supming/orn as		
11.							
					Herb - All herbaceous (non-woody) plants, regardless of size.		
12.					Herb - All herbaceous (hon-woody) plants, regardless of size.		
13.							
14.							
15.					Woody Vines - All woody vines, regardless of height.		
	Total Cover =	90					
Woody Vine S	tratum (Plot size: 30 ft. radius)						
1.							
2.							
3.					Hydrophytic Vegetation Present?		
5.					,		
4.	1						
4.	Total Cover =						
Damandaa							
Remarks:	A hardwood swamp with a canopy dominate yellow lake sedge, and reed canary grass.				af willow, a shrub layer of mixed willows, and an herbaceous layer of water sedge,		
	, show that obago, and rood dariary grador i	- 7 5.1 5 61 17 110					
Additional	Remarks:						
1							