WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:																
Applicant:		L3R								Date: 08/02/14						
	Enbridge								County: Marshall							
Investigators:	ors: NTT/KRG Subreg						or LRR):	MLRA 56		State: MN						
	I15A			_			Classification	PEMbg								
-	Depression				cal Relief:					Sample Point: w-155n45w7-c2						
	3 - 7%		48.25			-96.4969		Datum:								
Are climatic/h		nditions on the site typica			ar? (If no, ex			Yes	□ No	Section:						
Are Vegetatio		□, or Hydrology □signi	-			Areı	normal circur	nstances pre	esent?	Township:						
Are Vegetatio			ally prol	olematic?			Yes	□ No		Range: Dir:						
SUMMARY OF FINDINGS																
Hydrophytic V	Yes				Hydric Soils Present?											
Wetland Hydrology Present?			Yes					Is This Sar	mpling Poin	t Within A Wetland? Yes						
Remarks: The wetland is a Shrub-Carr community dominated by Salix interior and Carex bebbii.																
HYDROLOGY	7															
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):																
Primary:	arology mai	outors (orrook an triat ap	ριγ, ινιιι		io primary	01 two 000	Jonaary roqui	100):	Secondary:							
	A1 - Surface \	Vater			B11 - Salt	Crust				B6 - Surface Soil Cracks						
	A2 - High Wat				B13 - Aqua					B8 - Sparsely Vegetated Concave Surface						
	A3 - Saturatio					gen Sulfide				B10 - Drainage Patterns						
	B1 - Water Ma					eason Wate		Dooto (not till		C3 - Oxidized Rhizospheres on Living Roots (tilled)						
	B2 - Sediment B3 - Drift Dep	•				ence of Redu	heres on Living	Roots (not till	• 🗆	C8 - Crayfish Burrows C9 - Saturation Visible on Aerial Imagery						
	B4 - Algal Mat					Muck Surfac				D2 - Geomorphic Position						
	B5 - Iron Depo				Other (Exp				✓	D5 - FAC-Neutral Test						
		n Visible on Aerial Imagery			` .	,				D7 - Frost-Heaved Hummocks (LRR F)						
	B9 - Water-St	ained Leaves														
Field Observ																
Surface Wate		Yes	Depth:		_ (in.)			Wetland H	lvdrology l	Present? Y						
			•		Water Table Present? Yes Depth: (in.) Wetland Hydrology Present? Y											
Saturation Present? Yes Depth: 0 (in.)																
Saturation Pre	556111 !	Yes ☑	Depth:	0	(in.)											
		Yes ☑ tream gauge, monitoring v	<u>'</u>		<u> </u>	pections), if	available:									
Describe Reco	rded Data (s		∕ell, aeri	al photos, pr	evious insp	pections), if	available:									
Describe Reco	rded Data (s	tream gauge, monitoring v	∕ell, aeri	al photos, pr	evious insp	pections), if	available:									
Describe Reco Remarks:	rded Data (s Soils were s	tream gauge, monitoring vaturated at the surface the	vell, aeri	al photos, pro out the wetla	evious insp nd.											
Describe Reco Remarks: SOILS Profile Descrip	rded Data (s Soils were s	tream gauge, monitoring vaturated at the surface the	vell, aeri	al photos, pro out the wetla	evious insp nd. cator or co	onfirm the	absence of ir									
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Describe Reco Remarks: SOILS Profile Descrip	rded Data (s Soils were s	tream gauge, monitoring valurated at the surface the beto the depth needed to etion, RM=Reduced Matrix, CS	vell, aeri	al photos, pro out the wetla	evious insp nd. cator or co	onfirm the	absence of ir e Lining, M=Mat									
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Describe Reco Remarks: SOILS Profile Descrip (Type: C=Concent	Soils were sotion (Descritation, D=Deple	tream gauge, monitoring verteam gauge, monit	yell, aeri nrougho docun =Covered % 95	al photos, proput the wetlander	evious insp nd. cator or co Grains; Loca Moist)	onfirm the tion: PL=Por Mottles	absence of ir e Lining, M=Mat	rix)	Texture FS	Remarks						
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Describe Reco Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-8 8-18	orded Data (some solid s	tream gauge, monitoring valuated at the surface the be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/2 3/1	/ell, aeri nrougho o docun =Covered % 95 100	al photos, proput the wetland the individual of the control of the	evious inspections in the control of	Mottles 5	absence of in the Lining, M=Mat S Type C	Location	FS S	Remarks or Problematic Soils ¹						
Describe Reco Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-8 8-18 NRCS Hydri	orded Data (some solid s	tream gauge, monitoring valuated at the surface the be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/2 3/1	/ell, aeri nrougho O docun =Covered % 95 100 re if ind	al photos, proput the wetland the individual of the control of the	evious inspand. cator or configurations; Local Moist) 6/3 not present	Mottles 5	absence of in the Lining, M=Mat S Type C	Location M	FS S Indicators f							
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Describe Reco Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-8 8-18 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Epi A3 - Black His	tream gauge, monitoring valuated at the surface the beto the depth needed to etion, RM=Reduced Matrix, CS: Matrix Color (Moist) 2/2 3/1 Indicators (check he ipedon etic	/ell, aeri nrougho O docun =Covered 95 100 re if ind	al photos, produt the wetland the individual content the individual	evious inspend. cator or configurations; Locations; Lo	Mottles Mottles Mottl	absence of in the Lining, M=Mat S Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	or Problematic Soils ¹ uck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G)						
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n45w7-c2					
					•					
VEGETATIO	N (Species identified in all uppercase are	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: 3 (A)					
3.										
4.					Total Number of Dominant Species Across All Strata: 3 (B)					
5.					·					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)					
7.					(122)					
8.					Prevalence Index Worksheet					
9.					Total % Cover of: Multiply by:					
10.										
10.		0			OBL spp. 75					
	Total Covel = _	0			FACW spp. $\frac{65}{2}$ $\times 2 = \frac{130}{2}$					
Conting/Charth	Chrotum (Diet einer 45 ft. redius)				FAC spp. $\begin{array}{c cccc} & 0 & & x & 3 = & & 0 \\ \hline FACU spp. & & 0 & & x & 4 = & & 0 \\ \end{array}$					
	Stratum (Plot size: 15 ft. radius)	<u> </u>		FACW	FACU spp. $0 \times 4 = 0$					
1.	Salix interior	50	Y		UPL spp. $0 x 5 = 0$					
2.	Salix petiolaris	25	Ť	OBL	T + 1					
3.					Total 140 (A) 205 (B)					
4.										
5.					Prevalence Index = B/A = <u>1.464</u>					
6.	_									
7.										
8.					Hydrophytic Vegetation Indicators:					
9.					Rapid Test for Hydrophytic Vegetation					
10.					XDominance Test is > 50%					
	Total Cover =	75			X Prevalence Index is ≤ 3.0 *					
					Morphological Adaptations (Explain) *					
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *					
1.	Carex bebbii	40	Υ	OBL						
2.	Equisetum hyemale	10	N	FACW	* Indicators of hydric soil and wetland hydrology must be					
3.	Typha angustifolia	10	N	OBL	present, unless disturbed or problematic.					
4.	Anemone canadensis	5	N	FACW	Definitions of Vegetation Strata:					
5.	Anomore canadensis			171011						
6					Tree - West release 2 in (7 Com) or more in dispressor at breast					
7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.					
					110.1g/14 (2.21.1); 1.0g/a.1a1000 01.110.1g/14					
8.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.					
9.					Sapiring/Sirrub - Woody Plants less than 5 in. DBH, Tegardiess of Height.					
10.										
11.					All hards account from wearth a least a recombles of circ					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.					
13.										
14.										
15.					Woody Vines - All woody vines, regardless of height.					
	Total Cover = _	65								
Woody Vine St	ratum (Plot size: 30 ft. radius)									
1.										
2.										
3.					Hydrophytic Vegetation Present? Y					
5.										
4.										
···	Total Cover =	0								
Remarks: Vegetation is sparse in the herb layer because the ground is covered with dead leaf matter. Dominant species include Salix interior and Carex bebbii.										
Tremains. Vegetation is sparse in the herb layer because the ground is covered with dead lear matter. Dominant species include Salix interior and Carex bebbli.										
Additional Remarks:										