WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/01/14
Applicant:		Enbridge								County:	Marshall
Investigators	:	NTT/KRG			Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	I24A			_			I Classification:			_	
Landform:	Depression				cal Relief:					Sample Point:	w-155n46w12-a1
Slope (%):	3 - 7%		titude: 48.26		Longitude:			Datum:		1	
		onditions on the site ty	•		ar? (If no, exp			Yes	□ No	Section:	
Are Vegetation			•	disturbed?		Are	e normal circum	-	esent?	Township:	
Are Vegetation			aturally pro	blematic?			Yes	□ No		Range:	Dir:
SUMMARY C											
Hydrophytic \	•		Yes		-				Is Present?		41 12 X
Wetland Hydrology Present?			Yes		etland? Yes						
Remarks:	The wetlan	d is a fresh meadow t	hat lies wit	nin a roadsid	e ditch and	d is domi	inated by Phala	iris arundina	acea and S	cirpus atrovire	ens.
HYDROLOG'	Y										
Wetland Hy	drology Ind	licators (Check all tha	at apply; M	inimum of or	e primary	or two se	econdary requir	ed):			
<u>Primary:</u>						_			Secondary:	•	
	A1 - Surface				B11 - Salt					B6 - Surface S	
	A2 - High Wa A3 - Saturation				B13 - Aqua C1 - Hydro					B10 - Drainage	Vegetated Concave Surface
	B1 - Water M				C2 - Dry S						Rhizospheres on Living Roots (tilled)
	B2 - Sedimer						spheres on Living	Roots (not till	· -	C8 - Crayfish E	
	B3 - Drift Dep	•					duced Iron	`			n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace		✓	D2 - Geomorp	
	B5 - Iron Dep				Other (Exp	olain)			☑	D5 - FAC-Neut	
		on Visible on Aerial Image tained Leaves	ery						Ц	D7 - Frost-Hea	aved Hummocks (LRR F)
	D3 - Water-O	tailled Leaves									
Field Observ	vations:										
Surface Water		Voc	Donth		(in)						
Water Table		Yes □ Yes □	Depth Depth		_ (in.)			Wetland F	lydrology l	Present?	Υ
Saturation Pr		Yes ☑	Depth		- (in.) - (in.)						_
		165	Depti		_ (''''.)						
Decembe December											
	<u> </u>	stream gauge, monitori			<u> </u>	ections),	if available:				
Remarks:	<u> </u>	stream gauge, monitori aturated at the surface			<u> </u>	ections),	if available:				
Remarks:	<u> </u>				<u> </u>	ections),	if available:				
Remarks:	Soils are sa	aturated at the surface	e throughou	ut the wetland	d.	·		dicators			
Remarks: SOILS Profile Descri	Soils are sa	aturated at the surface	e throughou	ut the wetland	d. cator or co	onfirm the	e absence of in				
Remarks: SOILS Profile Descri	Soils are sa	aturated at the surface	e throughou	ut the wetland	d. cator or co	onfirm the	e absence of in				
Remarks: SOILS Profile Descri	Soils are sa	ibe to the depth need	e throughou	ut the wetland	d. cator or co	onfirm the	e absence of in ore Lining, M=Matri				
Remarks: SOILS Profile Descri (Type: C=Concer	Soils are sa	ribe to the depth need letion, RM=Reduced Matrix	ed to docu	ment the indi	d. cator or co	onfirm the	e absence of in ore Lining, M=Matri	(x)	Texture		Remarks
Remarks: SOILS Profile Descri	Soils are sa	ibe to the depth need	e throughou	ut the wetland	d. cator or co	onfirm the	e absence of in ore Lining, M=Matri		Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer	Soils are sa	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist)	ed to docu	ment the indi	cator or co	Mottle	e absence of in ore Lining, M=Matri es Type	(x)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	Soils are sa	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist)	ed to docu	ment the indi	cator or co	Mottle	e absence of in ore Lining, M=Matri	(x)			
Remarks: SOILS Profile Descri (Type: C=Concer	Soils are saiption (Description, D=Dep	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist)	ed to docu	ment the indid/Coated Sand Color (cator or co Grains; Loca Moist)	Mottle	e absence of in ore Lining, M=Matri es Type	Location	Indicators f	for Problematic	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Soils are saiption (Description, D=Deportration, D=Deportration) ic Soil Field A1- Histosol	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist)	ed to docu	ment the indid/Coated Sand Color (dicators are in the state of the	cator or co Grains; Loca Moist) not presen	Mottle	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M	luck (LRR I, J)	: Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Soils are saiption (Description (Description, D=Deportration,	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (checked)	ed to docu	ment the indid/Coated Sand Color (S5 - Sandy R S6 - Stripped	cator or co Grains; Loca Moist) not presen edox Matrix	Mottle %	e absence of in ore Lining, M=Matri es Type	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.) NRCS Hydr	Soils are saiption (Description (Description, D=Deportration,	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (checkle)	ed to docu	ment the indid/Coated Sand Color (S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or co Grains; Loca Moist) Moist) not presen edox Matrix Mucky Miner	mottle Mottle w tion: PL=Po	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox (urface (LRR G)	Soils ¹ LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Soils are said ption (Description (Description, Dependent of the contration, Dependent of the contration) A1- Histosol A2 - Histic Ep A3 - Black Histosol A4 - Hydroger	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (checker Sulfide	ed to docu	ment the indid/Coated Sand Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	cator or co Grains; Locar Moist) Moist) not presen edox Matrix Mucky Minera	mottle Mottle w tion: PL=Po	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sc F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: Soils ¹
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Soils are satisfied A1- Histosol A2 - Histic Ep A3 - Black Histosol A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick I	ibe to the depth need letion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (check of the color stick of the color stick of the color stick of the color stick (LRR F) lock (LRR FGH) led Below Dark Surface of the color strategy of the	ed to documents, CS=Covere	color (S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or co Grains; Loca Moist) Moist) not presen edox Matrix Mucky Minera Gleyed Matrix ark Surface Dark Surface	mottle Mottle % t):	e absence of in ore Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Plated Vertic Parent Material	E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Prevalence Index Worksheet	roject/Site:	.3R				Sample Point: w-155n46w12-a1
Tools Secretary Process Secretary Indicators Secretary Indicators Secretary Indicators In						
Suppose Name	GETATION	(Species identified in all uppercase are	non-native	species.)		
1	ee Stratum (Plo	size: 30 ft. radius)				
2	<u>Sr</u>	<u>ecies Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
Total Number of Dominant Species Across All Stratus 2	1.					
Total Number of Dominant Species Across All Stratus 2	2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
Total Number of Dominant Species Across All Stratus 2						(
Percent of Dominant Species That Are OBL, FACW, or FAC. 100.0%						Total Number of Deminent Species Agrees All Strate:
Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% Total Cover = 0						Total Number of Dominant Species Across All Strata(D)
Prevalence Index Worksheet						
Registration Prevalence Index Worksheet Total % Coverage Multiple by						Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
9.	7.					
Total Cover = 0	8.					Prevalence Index Worksheet
Total Cover = 0	9.					Total % Cover of: Multiply by:
2.						OBI spp. 35 $x = 35$
2.		Total Cover –	0			FACW spp. 55 x 2 = 110
2.				_		EAC app. 2
2.	-11	(District 45 (to 12)				FACULTION $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$
2.	4	um (Plot size: 15 ft. radius)				FACU spp5
2.						UPL spp. $0 X 5 = 0$
4.						
A	3.					Total 95 (A) 165 (B)
S.	4.					
6.						Prevalence Index = $B/A = 1.737$
Total Cover						
R.						
Second S						Hydrophytic Vocatation Indicators:
Total Cover = 0						
Total Cover = 0						
Herb Stratum (Plot size: 5 ft. radius)						XDominance Test is > 50%
Herb Stratum (Plot size: 5 ft. radius)		Total Cover = _	0			X Prevalence Index is ≤ 3.0 *
Herb Stratum (Plot size: 5 ft. radius)						Morphological Adaptations (Explain) *
1. Phalaris arundinacea 50	erb Stratum (Plot	size: 5 ft_radius)				
2. Scirpus atrovirens 2. Carex pelitra 3. Carex pelitra 4. Poa palustris 5. N FACU 5. Phloum pratense 5. N FACU 6. Eleocharis palustris 5. N OBL 7. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. 8. Sapling/Shrub - Woody vines, regardless of height. 11. Sapling/Shrub - All woody vines, regardless of height. Woody Vine Stratum (Plot size: 30 ft. radius) 1. Sapling/Shrub - Woody vines, regardless of height. Hydrophytic Vegetation Present? Y Hydrophytic Vegetation Present? Y		·	50	Y	FACW	TTOSIGNTTIYATOPHYNO VOGONANON (Explain)
3. Carex politita 4. Poa palustris 5 N FACW 5. Philum pratense 6 Eleocharis palustris 7. OBL 8. OBL 11. OBL 12. OBL 13. OBL 14. OBL 15. OBL 16. OBL 17. OBL 17. OBL 18. OBL 19. OBL 19. OBL 10. OBL 11. OBL 11. OBL 11. OBL 12. OBL 13. OBL 14. OBL 15. OBL 16. OBL 17. OBL 17. OBL 18. OBL 19. OBL 19. OBL 10. OBL 10. OBL 10. OBL 11. OBL 11. OBL 12. OBL 13. OBL 14. OBL 15. OBL 16. OBL 16. OBL 17. OBL 17. OBL 17. OBL 18. OBL 19. OBL 10. OBL 10				<u> </u>		* Indicators of hydric soil and wetland hydrology must be
A				<u> </u>		
S. Phieum pratense S		ex pellita				·
Tree - Woody plants 3 in. (7.6cm) or more in diameter height (DBH), regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of height. Woody Vines - All woody vines, regardless of height. Total Cover = 95		a palustris	5			Definitions of Vegetation Strata:
Total Cover = 95 Woody Vines tratum (Plot size: 30 ft. radius) Woody Vines tratum (Plot size: 30 ft. radius) Cover = 95 Cover	5. PI	eum pratense	5	N	FACU	
Total Cover = 95 Hydrophytic Vegetation Present? Y Height (DBH), regardless of height. Height (DBH), regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. Herb - All herbaceous (non-woody) plants, regardless of height. Woody Vines - All woody vines, regardless of height. Woody Vines - All woody vines, regardless of height. Hydrophytic Vegetation Present? Y Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydrophyt	6 E	ocharis palustris	5	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
8. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of 10. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of 11. Herb - All herbaceous (non-woody) plants, regardless of 13. Woody Vines - All woody vines, regardless of height. Total Cover = 95 Woody Vine Stratum (Plot size: 30 ft. radius)	7.					
9. Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of 10.						
10.						Sanling/Shrub - Woody plants less than 3 in, DBH, regardless of height.
11.						Oapmig/Omab = 11 cos) France too man = 211, 10gan areas of 110 gan
12.						
13.						
14.						Herb - All herbaceous (non-woody) plants, regardless of size.
15. Woody Vines - All woody vines, regardless of height.	13.					
Total Cover = 95 Woody Vine Stratum (Plot size: 30 ft. radius) 1.	14.					
Total Cover = 95 Woody Vine Stratum (Plot size: 30 ft. radius) 1.	15.					Woody Vines - All woody vines, regardless of height.
Woody Vine Stratum (Plot size: 30 ft. radius)	- L	Total Cover -	95			
1.			90	_		
1.	and AP Comme	(Distriction 00 ff and Pro)				
3. Hydrophytic Vegetation Present? Y 5. 4.	body Vine Stratu	1 (Plot size: 30 ft. radius)				
3. Hydrophytic Vegetation Present? Y 5. 4.	1.					
5. 4. ——————————————————————————————————						
5.	3.					Hydrophytic Vegetation Present? Y
4.	5.					
		Total Cover =	0			
Remarks: The wetland vegetation is dominated by Phalaris arundinacea and Scirpus atrovirens.	emarke: Ti			inacea and	d Scirnus	atrovirens
ntemarks. The welland vegetation is dominated by Fhalans ardindinaced and scripus allovirens.	ziliaiks. II	s welland vegetation is dominated by Phale	ano anunu	macea and	a Scirpus	AUDVIIGITO.
Additional Remarks:	dditional Ren	arks:				