WETLAND DETERMINATION DATA FORM Great Plains Region

D 1 1/01		l. o.D.								T = .	
Project/Site:		L3R								Date:	09/16/14
Applicant:		Enbridge			Subragio	n /MI D A	or I DD\	MIDAEG		County:	Pennington MN
Soil Unit:	Investigators: MRK/OTG Soil Unit: I66A				Subregio	•	or LRR): Classification:	MLRA 56		State:	IVIIN
Landform:	Depression			cal Relief:		Classification.			Sample Point:	w-154n44w33-f1	
Slope (%):	8 - 15%		itude: 48.11			-96.3110	0378333	Datum:	•		W 1041144W0011
. ,		nditions on the site ty						✓ Yes	□ No	Section:	
Are Vegetation			ignificantly		(, , , , , ,	1	normal circun			Township:	
Are Vegetation			aturally prob					□ No		Range:	Dir:
SUMMARY C			7 1							Ü	
Hydrophytic \	Vegetation P	resent?	Yes					Hydric Soi	Is Present?	Yes	
Wetland Hyd	Irology Prese	nt?	Yes					Is This Sa	mpling Poir	nt Within A W	etland? Yes
Remarks:	The wetland	d is a wet meadow loc	ated in a di	tch next to a	bermed,	forested a	area.				
HYDROLOG	Υ										
Wetland Hy	drology Ind	icators (Check all tha	at apply: Mir	nimum of on	e primary	or two se	econdary requi	red):			
Primary:	•	ioatoro (oncon an the	at apply, Iviii		o primary	01 100 00	oonaary roqui	100):	Secondary	:	
	A1 - Surface	Water			B11 - Salt (Crust				B6 - Surface S	oil Cracks
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturation B1 - Water M				C1 - Hydro C2 - Dry So					B10 - Drainage	
	B2 - Sedimen						pheres on Living	Roots (not till	le 🗆	C8 - Crayfish E	Rhizospheres on Living Roots (tille Burrows
	B3 - Drift Dep	•			C4 - Prese			(1.01		-	Nisible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ce		✓	D2 - Geomorp	
	B5 - Iron Dep		API /		Other (Exp	olain)				D5 - FAC-Neut	
		on Visible on Aerial Image tained Leaves	ei y							D7 - F10St-Hea	ved Hummocks (LRR F)
	Do Water O	amod Loavoo									
Field Observ	vations:										
Surface Wate		Yes	Depth:		(in.)						
Water Table		Yes	Depth:		(in.)			Wetland F	Hydrology	Present?	Υ
Saturation Pr		Yes	Depth:		(in.)						
					. (/						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: The wetland sample point is located in a ditch and dominated by hydrophytic vegetation.											
	· ·										
Remarks:	· ·										
Remarks:	· ·										
Remarks:	The wetland	d sample point is locat	ted in a dito	h and domir	nated by h	ydrophyti	c vegetation.	ndicators.)			
Remarks: SOILS Profile Descri	The wetland		ted in a dito	h and domin	nated by h	ydrophytion	c vegetation. e absence of ir				
Remarks: SOILS Profile Descri	The wetland	d sample point is located be to the depth needs	ted in a dito	h and domin	nated by h	ydrophytion	c vegetation. e absence of ir				
Remarks: SOILS Profile Descri	The wetland	d sample point is located be to the depth needs	ted in a dito	h and domin	nated by h	ydrophytion	c vegetation. e absence of increase tining, M=Matr				
Remarks: SOILS Profile Descri	The wetland	d sample point is located be to the depth needs etion, RM=Reduced Matrix,	ted in a dito	h and domin	cator or co	ydrophytion onfirm the	c vegetation. e absence of increase tining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concen	The wetland	be to the depth neede etion, RM=Reduced Matrix Matrix Color (Moist)	ed to docum	h and domin nent the indi /Coated Sand	cator or co	ydrophytion onfirm the tion: PL=Po	e absence of increase continuity of the contract of the contra	ix)	Texture SCL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concen	The wetland	be to the depth neede etion, RM=Reduced Matrix Matrix Color (Moist)	ed to docum CS=Covered	h and domin nent the indi /Coated Sand	cator or co Grains; Local	ydrophytion onfirm the tion: PL=Po	e absence of increase continuity of the contract of the contra	ix)		gravel	Remarks
Remarks: SOILS Profile Descri (Type: C=Concent	The wetland iption (Description, D=Depl	be to the depth needed to	ed to docum CS=Covered	h and dominate the indicated Sand (cator or co Grains; Local	onfirm the	e absence of incre Lining, M=Matres Type	Location	SCL	gravel	Remarks
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-3	The wetland iption (Description, D=Depl	be to the depth needed to	ed to docum CS=Covered	h and dominate the indicated Sand (cator or co Grains; Local	onfirm the	e absence of incre Lining, M=Matres Type	Location	SCL	gravel	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-3	The wetland iption (Description, D=Depl	be to the depth needed to	ed to docum CS=Covered	h and dominate the indicated Sand (cator or co Grains; Local	onfirm the	e absence of incre Lining, M=Matres Type	Location	SCL	gravel	Remarks
Remarks: SOILS Profile Descri (Type: C=Concent) Depth (In.) 0-3 3-20	The wetland iption (Description, D=Depl Hue_10YR Hue_2.5Y	be to the depth neede etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 5/1	ed to docum CS=Covered	h and dominate the individual of the individual	cator or co Grains; Local	mottle 20	e absence of incre Lining, M=Matres Type	Location	SCL	gravel	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concent) Depth (In.) 0-3 3-20 NRCS Hydri	The wetland iption (Description, D=Depl Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep	be to the depth neede etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 5/1 Indicators (checken)	ed to docum CS=Covered	coated Sand Coated Sand Coated Sand Color (Including Coated Sand Color (Including Coated Sand Color (Including Sand Sand Sand Sand Sand Sand Sand Sand	cator or co Grains; Local Moist) 5/6 not presented ox Matrix	ydrophyticonfirm the tion: PL=Po	e absence of incre Lining, M=Matrees Type C	Location	Indicators A9 - 1 cm N A16 - Coas	for Problemation Muck (LRR I, J) t Prairie Redox (: Soils ¹
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-3 3-20 NRCS Hydri	The wetland Iption (Description, D=Deplete A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	be to the depth needed etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 5/1 Indicators (check ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) in Below Dark Surface eark Surface eark Surface	ched in a ditored to document of the control of the	coated Sand Coated Sand Coated Sand Color (Included Sand Color (Included Sand Color (Included Sand Sand Sand Sand Sand Sand Sand San	cator or co Grains; Locar Moist) 5/6 oot presen edox Matrix lucky Mineral leyed Matrix ark Surface Dark Surface epressions	mottle Mottle 20 t):	e absence of incre Lining, M=Matros Type C	Location	Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I F18 - Redu TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material	E Soils ¹ LRR F, G, H) DNS (LRR H, outside MLRA 72, 73)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R

VEGETATION (Species identified in all uppercase are non-native species.)

Tree Stratum (Plot size: 30 ft. radius)

Species Name (Species Name (Species Name (Species Name (Number of Dominant Ind.Status (Number of Dominant Species that are ORL FACW or FAC: (A)

Tree Stratum (Plot size: 30 ft. radius)							
	Species Name	% Cover	Dominant	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.					retain terms of Denimiant epocles / to esse /			
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.					Percent of Dominant Species that Are OBL, FACW, of FAC. 100.0% (A/B)			
					Dravalance Index Workshoot			
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. 45			
	Total Cover =	0	_		FACW spp. 90 x 2 = 180			
					FAC spp. $0 x 3 = 0$			
	Stratum (Plot size: 15 ft. radius)			= 4 0 14 /	FACU spp. $5 x 4 = $			
1.	Salix discolor	15	Y	FACW	UPL spp. $0 x 5 = 0$			
2.	Salix bebbiana	5	Υ	FACW				
3.					Total 140 (A) 245 (B)			
4.								
5.					Prevalence Index = B/A = 1.750			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
10.	Total Cover =	20			X Prevalence Index is ≤ 3.0 *			
	Total Cover =		_					
Llanda Otrastaria (F	Distriction 5 ft modition)				Morphological Adaptations (Explain) *			
,	Plot size: 5 ft. radius)		V	E 4 (C) 4 /	Problem Hydrophytic Vegetation (Explain) *			
1.	Phalaris arundinacea	50	<u> </u>	FACW	* La Parte de Charles de la Live de la Charles de La Company de la Compa			
2.	Carex pellita	40	Y	OBL	* Indicators of hydric soil and wetland hydrology must be			
3.	Symphyotrichum lanceolatum	15	N	FACW	present, unless disturbed or problematic.			
4.	Agrostis gigantea	5	N	FACW	Definitions of Vegetation Strata:			
5.	Cicuta maculata	5	N	OBL				
6	Andropogon gerardii	5	N	FACU	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.								
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
15.	Total Cayor	120			Woody Villes - / III Hoody Villes, regardless of height			
	Total Cover =	120	_					
	(D)							
	ratum (Plot size: 30 ft. radius)							
1.								
2.				_				
3.					Hydrophytic Vegetation Present?Y			
5.								
4.								
	Total Cover =							
Remarks: The wetland sample point is dominated by pussy willow, Bebb's willow, reed canary grass and woolly sedge.								
Additional Remarks:								
, taditional itolianito								