WETLAND DETERMINATION DATA FORM Great Plains Region

		I	,								T		
Project/Site:		L3R									Date:	06/26/14	
Applicant:		Enbridge NTT/KRG				Subragion	a/MIDA or IDE	٥١٠	MI DA FG		County:	Marshall MN	
Investigators Soil Unit:	I133A	NTT/KKG				Subregion	n (MLRA or LRF NWI Classi	•	MLRA 56		State:	IVIIN	
Landform:	Depression				Loc	cal Relief:		iication.			Sample Point:	w-158n48w8-a1	
Slope (%):	3 - 7%		Latitude: 48	8 523			-96.867857		Datum:			W 1001140WO d1	
		nditions on the site								□ No	Section:		
Are Vegetation		□, or Hydrology				11 T (11 110, 0XP		al circum	stances pre		Township:		
Are Vegetation		□, or Hydrology	•	•			7 (10 Holling			2001101	Range:	Dir:	
SUMMARY C			₽latarany	ргоог	omado.			100	_ 140		range.	Dii.	
Hydrophytic \			Ye	es					Hydric Soil	s Present?	Yes		
Wetland Hyd				es		,					nt Within A We	etland? Yes	
Remarks:		d is a wet meadow			roadside d	ditch and s	narsely vegetat						
- Komanto	THE Worldin		roodtod W		a roadordo c	anton and o	parcery regular	iod With	Typna anga		. other merbae	oodo pidinoi	
HYDROLOG	V												
_		icators (Check all	I that apply	/; Mini	mum of one	e primary o	or two secondai	ry requir	ed):	0			
Primary:	<u>:</u>	Motor				B11 - Salt (Cru ot			Secondary:	B6 - Surface S	oil Crooks	
	A1 - Surface A2 - High Wa					B13 - Aqua						oil Cracks /egetated Concave Surface	i
	A3 - Saturation					•	gen Sulfide Odor				B10 - Drainage		
	B1 - Water M						eason Water Table	Э			C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen	•					ed Rhizospheres o		Roots (not tille		C8 - Crayfish B	Burrows	, ,
	B3 - Drift Dep						nce of Reduced Iro	on				Visible on Aerial Imagery	
	B4 - Algal Ma						luck Surface			☑	D2 - Geomorph		
	B5 - Iron Dep	osits In Visible on Aerial Im	nagory,			Other (Expl	ain)				D5 - FAC-Neut	rai Test ved Hummocks (LRR F)	
		tained Leaves	lagery								D7 - F105t-Hea	ved Hullillocks (LRR F)	
	Do Water O	anica Leaves											
Field Observ	vations:												
		Vac = F	D		6	(in)							
Surface Water		Yes ☑		epth: _	6	(in.)			Wetland H	ydrology	Present?	Υ	
Water Table		Yes		epth: _	0	(in.)							
Saturation Pr	resent?	Yes ☑	De	epth: _	U	(in.)							
Describe Reco	orded Data (s	stream gauge, moni	itoring well,	, aeria	l photos, pre	evious insp	ections), if availa	able:					
Describe Reco	<u>`</u>	stream gauge, moni			<u> </u>		<u> </u>		er.				
	<u>`</u>				<u> </u>		<u> </u>		er.				
	<u>`</u>				<u> </u>		<u> </u>		er.				
Remarks: SOILS Profile Descri	The wetland	d is within a floode be to the depth ne	ed roadside	e ditch	that containent the indicate	ns up to 6	inches of stand	ding wate	dicators.)				
Remarks: SOILS Profile Descri	The wetland	d is within a floode	ed roadside	e ditch	that containent the indicate	ns up to 6	inches of stand	ding wate	dicators.)				
Remarks: SOILS Profile Descri	The wetland	be to the depth ne	ed roadside	e ditch	that containent the indicate	ns up to 6	inches of stand onfirm the absertion: PL=Pore Lining	ding wate	dicators.)				
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth ne etion, RM=Reduced Ma	ed roadside eeded to do latrix, CS=Cov	ocume	ent the indicated Sand Coated Sand C	ns up to 6	onfirm the absertion: PL=Pore Lining	ding wate nce of ine g, M=Matri	dicators.) ×)				
Remarks: SOILS Profile Descri	The wetland	be to the depth ne	ed roadside eeded to do latrix, CS=Cov	e ditch	that containent the indicate	ns up to 6	onfirm the absertion: PL=Pore Lining	ding wate	dicators.)	Texture		Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	ed roadside eeded to do latrix, CS=Cov	ocume overed/C	ent the indicated Sand Coated Sand Color (N	cator or co	onfirm the absertion: PL=Pore Lining Mottles % Ty	ding wate nce of ine g, M=Matri	dicators.) ×)	Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	ed roadside eeded to do latrix, CS=Cov	ocume overed/C	ent the indicated Sand Coated Sand C	cator or co	onfirm the absertion: PL=Pore Lining Mottles % Ty	ding wate nce of ine g, M=Matri	dicators.) ×)				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	The wetland iption (Description, Depointment of the contraction, Depointment of the contraction) The wetland in the contraction, Depointment of the contraction of th	be to the depth ne etion, RM=Reduced Matrix Color (Moist)	ed roadside eeded to do latrix, CS=Cov	ocume overed/C	ent the indicented Sand Coated Sand Color (N	ns up to 6 cator or co Grains; Locat Moist)	onfirm the absertion: PL=Pore Lining Mottles % Ty	ding wate nce of ine g, M=Matri	Location	Indicators f	for Problematic		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	The wetland iption (Description, D=Depl ric Soil Field A1- Histosol	be to the depth ne etion, RM=Reduced Matrix Color (Moist) Indicators (ch	ed roadside eeded to do latrix, CS=Cov	ocumente distribution	cators are n	ns up to 6 cator or co Grains; Locat Moist) ot present	onfirm the absertion: PL=Pore Lining Mottles % Ty	ding wate nce of ine g, M=Matri	dicators.) x) Location	Indicators f A9 - 1 cm M	luck (LRR I, J)	: Soils¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	The wetland iption (Description, Depoint Intration,	be to the depth ne etion, RM=Reduced Matrix Color (Moist) Indicators (chain)	ed roadside eeded to do latrix, CS=Cov	ocume overed/C	cators are n	ns up to 6 cator or co Grains; Locat Vloist) oot present edox Matrix	inches of stand	ding wate nce of ine g, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Cost F	luck (LRR I, J) Prairie Redox (L	: Soils¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	The wetland Iption (Description, D=Depl Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History	be to the depth ne etion, RM=Reduced Matrix Color (Moist) Indicators (chain in the color is the color in th	ed roadside eeded to do latrix, CS=Cov	ocumente ditch	cators are noted and Coated Sand Coated Sandy Rose Sandy Ro	cator or co Grains; Locat Moist) ot present	inches of stand	ding wate nce of ine g, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S	luck (LRR I, J) Prairie Redox (L urface (LRR G)	: Soils¹ RR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	The wetland iption (Description, D=Depl ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth ne etion, RM=Reduced Matrix Color (Moist) Indicators (characters)	ed roadside eeded to do latrix, CS=Cov	ocument ocumen	cators are noted and Coated Sand Coated Sandy Robotics are noted Sandy Robotics are noted Sandy Robotics Sandy Roboti	ns up to 6 cator or co Grains; Locat Moist) ot present edox Matrix lucky Minera leyed Matrix	inches of stand	ding wate nce of ine g, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	: Soils¹	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	The wetland Iption (Description, D=Depl Tration, D=Depl A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	be to the depth ne etion, RM=Reduced Matrix Color (Moist) Indicators (characters)	ed roadside eeded to do latrix, CS=Cov	ocument ocumen	cators are noted and Coated Sand Coated Sandy Robotics are noted Sandy Robotics are noted Sandy Robotics Sandy Roboti	cator or co Grains; Locat Moist) ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface	monthes of stand on firm the absertion: PL=Pore Lining Mottles % Ty t):	ding wate nce of ine g, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	RR F, G, H)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	The wetland Iption (Description, D=Depl Tration, D=Depl A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	be to the depth ne etion, RM=Reduced Matrix Color (Moist) Indicators (characters) ipedon etic in Sulfide Layers (LRR F) ck (LRR FGH) et Below Dark Surface ark Surface ucky Mineral	ed roadside eeded to do latrix, CS=Cov	ocument ocumen	cators are noted to the containable of the indicated Sand Control of the containable of t	cator or co Grains; Locat Moist) Moist) ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface epressions	monthes of stand on firm the absertion: PL=Pore Lining Mottles % Ty t):	nce of inc g, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ped Vertic Parent Material Shallow Dark S	RR F, G, H)	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	The wetland Iption (Description, D=Depl Tration, D=Depl 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 M S3 - 5 cm Mu	be to the depth ne etion, RM=Reduced Marix Matrix Color (Moist) Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	ed roadside eeded to do latrix, CS=Cov	ocument ocumen	cators are noted to the containable of the indicated Sand Control of the containable of t	cator or co Grains; Locat Moist) Moist) ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface epressions	monthes of stand on firm the absertion: PL=Pore Lining Mottles % Ty ti):	nce of inc g, M=Matri	Location	Indicators of A9 - 1 cm MA16 - Cost FS7 - Dark SF16 - High FF18 - Reductors - Red FTF12 - Very Other (Explain Indicators of Market FT - Red FT - Red FTF12 - Very Other (Explain Indicators of Market FT - Red FT -	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	RR F, G, H)	e present,
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	The wetland Iption (Description, D=Depl Tration, D=Depl 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 M S3 - 5 cm Mu	be to the depth ne etion, RM=Reduced Marix Matrix Color (Moist) Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	ed roadside eeded to do latrix, CS=Cov	ocument ocumen	cators are noted to the containable of the indicated Sand Control of the containable of t	cator or co Grains; Locat Moist) Moist) ot present edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surface epressions	monthes of stand on firm the absertion: PL=Pore Lining Mottles % Ty ti):	nce of inc g, M=Matri	Location	Indicators of A9 - 1 cm MA16 - Cost FS7 - Dark SF16 - High FF18 - Reductors - Red FTF12 - Very Other (Explain Indicators of Market FT - Red FT - Red FTF12 - Very Other (Explain Indicators of Market FT - Red FT -	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	Soils ¹ RR F, G, H) INS (LRR H, outisde MLRA 72, 73) urface	e present,
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-158n48w8-a1
-					•
VEGETATION	、 .	e non-native	species.)		
Tree Stratum (Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u>Species Ivairie</u>	<u> 70 00001</u>	Dominant	<u>ma.otatas</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.					
4.					Total Number of Dominant Species Across All Strata:1(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	Total Cavar				OBL spp. $\frac{50}{100} \times 1 = \frac{50}{100}$
	Total Cover =	0	_		FACW spp. $\frac{5}{\sqrt{2}}$ \times $2 = \frac{10}{\sqrt{2}}$
Sanling/Shrub 9	Stratum (Plat size: 15 ft radius)				FACW spp. 5
1.	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2.					
3.					Total 75 (A) 140 (B)
4.					(=/
5.					Prevalence Index = B/A = 1.867
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					XDominance Test is > 50%
	Total Cover =	0	_		X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)			0.01	Problem Hydrophytic Vegetation (Explain) *
1.	Typha angustifolia	50	Y	OBL	
2.	Elymus repens	10	N	FACU	
3.	Cirsium arvense	5	N N	FACU	<u> </u>
4. 5.	Rumex stenophyllus	5 5	N N	FACW FACU	Definitions of Vegetation Strata:
6	Trifolium hybridum	<u> </u>	IN	TACO	
7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast 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.
	Total Cover =	75			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					Hadron bed's Wassetstian Brazanto.
3.					Hydrophytic Vegetation Present? Y
5. 4.					
4.	Total Cover =	0			
Remarks:	The wetland vegetation is sparse due to pocl		nding wate	er but Typ	nha angustifolia is dominant
rtemants.	The Welland Vegetation is sparse due to pool	tots of sta	naing wate	i, but Typ	pria angustirona is dominant.
Additional R	Remarks:				
Additional R	Aemains.				