WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	09/29/14
Applicant: Investigators	·	Enbridge NTT/BEH	Subregion (MLRA				or LRR)	MLRA 56		County: State:	Pennington MN	
Soil Unit:	150A	TT INDETT		NWI Classification:						Oldio.		
Landform:	Depression				cal Relief:					Sample Poin	t: w-152n43w25-c1	
Slope (%):	16 - 25%	nditions on the sit	Latitude:			Longitude:			Datum:			
Are Climatic/		nditions on the site				IΓ ? (If no, exp		e normal circum	☑Yes	□ No	Section:	
Are Vegetati		or Hydrology					Aic	✓ Yes	□No	esent:	Township: Range:	Dir:
SUMMARY (y p. 02	51011144101			_			r tango.	5
Hydrophytic	Vegetation P	resent?	Yes					Hydric Soil	ls Present?	Yes		
Wetland Hydrology Present?				Yes							t Within A W	
Remarks:								small dirt road.	The wetlan	id is betwee	en a cut soyb	ean field and a corn field.
HYDROLOC		egetation includes	s prairie d	oru gr	ass and me	adow willo	ow.					
HYDROLOG									1)			
		icators (Check all	I that app	oly; Mir	nimum of on	e primary	or two se	econdary requi	red):	Secondary:		
<u>Primary:</u> ☐ A1 - Surface Water						B11 - Salt	Crust				B6 - Surface	Soil Cracks
A2 - High Water Table				☐ B13 - Aquatic Fauna							B8 - Sparsely Vegetated Concave Surface	
	A3 - Saturatio B1 - Water Ma				☐ C2 - Dry Season Water Table ☐						B10 - Drainag	ge Patterns Rhizospheres on Living Roots (tilled)
	B2 - Sedimen										C8 - Crayfish	
	B3 - Drift Dep				_	C4 - Prese						on Visible on Aerial Imagery
	B4 - Algal Ma B5 - Iron Dep					C7 - Thin N Other (Exp		ace			D2 - Geomory D5 - FAC-Neu	
	B7 - Inundation	n Visible on Aerial Im	nagery		_	0 ti 101 (2.Ap	,					eaved Hummocks (LRR F)
	B9 - Water-St	ained Leaves										
Field Obser	vations											
	er Present?	Yes 🔲		Depth:		(in.)						
Water Table		Yes 🔲							Wetland H	lydrology l	Present?	Υ
Saturation P		Yes 🗆		Depth:		(in.)						_
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (s	tream gauge, moni	itorina we	ell. aeria	al photos, pre	evious insc	ections).	if available:				
									drophytic ve	egetation an	nd landscape	position.
Describe Rec Remarks:		stream gauge, moni hydrology indicato							drophytic ve	egetation an	id landscape	position.
Remarks: SOILS	No wetland	hydrology indicato	ors are pr	resent.	. Wetland hy	drology is	assume	ed based on hyd	. ,	egetation an	id landscape	position.
Remarks: SOILS Profile Descr	No wetland iption (Descri	hydrology indicated be to the depth ne	ors are pr	resent.	. Wetland hy	drology is	assume	ed based on hyde	dicators.)	egetation an	nd landscape	position.
Remarks: SOILS Profile Descr	No wetland iption (Descri	hydrology indicato	ors are pr	resent.	. Wetland hy	drology is	assume	ed based on hyde	dicators.)	egetation an	nd landscape	position.
Remarks: SOILS Profile Descr	No wetland iption (Descri	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix	ors are pr	docum	. Wetland hy	drology is	onfirm the	ed based on hyde e absence of in ore Lining, M=Matr	dicators.)	egetation an	nd landscape	position.
Remarks: SOILS Profile Descr	No wetland iption (Descri	hydrology indicators be to the depth ne	ors are pr	resent.	. Wetland hy	drology is cator or co Grains; Loca	assume onfirm the tion: PL=Pe	ed based on hyde e absence of in ore Lining, M=Matr	dicators.)	getation an	id landscape	position. Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland iption (Descri	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix	ors are pr	docum	. Wetland hy nent the indi Coated Sand	drology is cator or co Grains; Loca	onfirm the	ed based on hyde e absence of in ore Lining, M=Matr es	dicators.)		id landscape	
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Remarks: SOILS Profile Descr (Type: C=Conce	No wetland	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist)	prs are presented to death, CS=C	docum Covered/ %	nent the indi //Coated Sand (cator or co Grains; Loca Moist)	onfirm the	ed based on hyde e absence of in ore Lining, M=Matr es	dicators.)		d landscape	
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Remarks: SOILS Profile Descr (Type: C=Conce	No wetland iption (Descrintration, D=Depl	be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) Indicators (ch	prs are presented to death, CS=C	docum Covered/ %	nent the indi Coated Sand (Color (I	cator or co Grains; Local Moist)	onfirm the	ed based on hyde e absence of incore Lining, M=Matrees Type	dicators.)	Texture Indicators f A9 - 1 cm M	For Problemati	Remarks
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland iption (Descrintration, D=Deplementation, D=Deplementation) ric Soil Field A1- Histosol A2 - Histic Ep	be to the depth neterion, RM=Reduced Mi Matrix Color (Moist) Indicators (chippedon	prs are presented to death, CS=C	docum Covered/ %	nent the indii //Coated Sand (Color (I	cator or co Grains; Loca Moist) Moist) not presen edox Matrix	onfirm the tion: PL=Pi Mottle %	ed based on hyde e absence of incore Lining, M=Matrees Type	dicators.) Location	Texture Indicators f A9 - 1 cm M A16 - Coast	for Problemati luck (LRR I, J) Prairie Redox	Remarks ic Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland iption (Descrintration, D=Depl	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (ch	prs are presented to death, CS=C	docum Covered/ %	nent the indi Coated Sand (Color (I	cator or co Grains; Loca Moist) Moist) Mot presented ox Matrix lucky Mineral	onfirm the	ed based on hyde e absence of incore Lining, M=Matrees Type	dicators.) Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sr	For Problemati luck (LRR I, J) Prairie Redox urface (LRR G	Remarks ic Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce	ric Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydrogei A5 - Stratified	hydrology indicate be to the depth ne etion, RM=Reduced M: Matrix Color (Moist) Indicators (ch ipedon stic n Sulfide Layers (LRR F)	prs are presented to death, CS=C	docum Covered/ %	Color (I Coated Sand of Color (I Costed Sand of Color (I Color (I S5 - Sandy R S6 - Stripped R F2 - Loamy G F3 - Depleted	cator or co Grains; Loca Moist) not presen edox Matrix lateyed Matri: Matrix Matrix	Assume on firm the tion: PL=Per Mottle % Mottle %	ed based on hyde e absence of incore Lining, M=Matrees Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc	for Problemati luck (LRR I, J) Prairie Redox urface (LRR G Plains Depressived Vertic	Remarks ic Soils¹ (LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	be to the depth neetion, RM=Reduced Minestern (Chapter and Color (Moist) Indicators (Chapter and Chapter and Chap	eeded to atrix, CS=C	docum Covered/ %	Color (I Costed Sand (I Color (I Color (I S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy S F3 - Depleted F6 - Redox D	cator or co Grains; Local Moist) Moist) Mot presented with the control of the c	Mottle %	ed based on hyde e absence of incore Lining, M=Matrees Type	dicators.)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sr F16 - High F F18 - Reduc	For Problemati Tuck (LRR I, J) Prairie Redox urface (LRR G Plains Depress Ped Vertic Parent Material	Remarks ic Soils¹ (LRR F, G, H)) ions (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland iption (Descrintration, D=Deplete A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroget A5 - Stratified A9 - 1 cm Mu A11 - Deplete	hydrology indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eeded to atrix, CS=C	docum Covered/ %	color (I Color (I Color (I S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted	cator or co Grains; Loca Moist) Moist) Mot presen edox Matrix lucky Minera lleyed Matrix Matrix ark Surface Dark Surface	Mottle %	ed based on hyde e absence of incore Lining, M=Matrees Type	Location	Indicators f A9-1 cm M A16 - Coast S7 - Dark SI F18 - Reduc TF2 - Red P TF12 - Very	for Problemati luck (LRR I, J) Prairie Redox urface (LRR G Plains Depressived Vertic	Remarks ic Soils¹ (LRR F, G, H)) ions (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descr (Type: C=Conce	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	hydrology indicated be to the depth neletion, RM=Reduced Minester Matrix Color (Moist) Indicators (chairman and chairman	eeded to eeded to atrix, CS=C	docum Covered/ %	color (I Color	cator or co Grains; Local Moist) Moist) Mot presented was a compared to the	monfirm the confirm the confirm the confirm the confirm the confirm the confirm the confirmation of the co	ed based on hyde e absence of incore Lining, M=Matrees Type	dicators.) Location	Indicators f A9-1 cm M A16 - Coast S7 - Dark SI F18 - Reduc TF2 - Red P TF12 - Very	For Problemati Juck (LRR I, J) Prairie Redox Jurface (LRR G Plains Depress Jurgent Material Shallow Dark	Remarks ic Soils¹ (LRR F, G, H)) ions (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descr (Type: C=Conce	No wetland iption (Descrintration, D=Depleter of the period of the perio	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) Indicators (chaipedon titic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (L	eeded to eed	docum Covered/ %	color (I Color	cator or co Grains; Local Moist) Moist) Mot presented was a compared to the	monfirm the confirm the confirm the confirm the confirm the confirm the confirm the confirmation of the co	ed based on hyde e absence of incore Lining, M=Matrees Type	dicators.) Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sr F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	for Problemati luck (LRR I, J) Prairie Redox urface (LRP GE) Plains Depressived Vertic Parent Material Shallow Dark ain in Remarks	Remarks ic Soils¹ (LRR F, G, H)) ions (LRR H, outside MLRA 72, 73) Surface)
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Remarks: SOILS Profile Descr (Type: C=Conce	No wetland iption (Descrintration, D=Depleter Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger 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 M. Matrix Color (Moist) Indicators (chairman and the color is suffide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ucky Mineral lucky Peat or Peat (LR)	eeded to eed	docum Covered/ %	color (I Color	cator or co Grains; Local Moist) Moist) Mot presented was a compared to the	monfirm the confirm the confirm the confirm the confirm the confirm the confirm the confirmation of the co	ed based on hyde e absence of incore Lining, M=Matrees Type	dicators.) Location	Indicators of May - 1 cm May - 1	For Problemati Juck (LRR I, J) Prairie Redox urface (LRR G Plains Depressived Vertic Tarent Material Shallow Dark ain in Remarks	Remarks ic Soils¹ (LRR F, G, H)) ions (LRR H, outside MLRA 72, 73) Surface) ation and wetland hydrology must be present,
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-152n43w25-c1			
VEGETATION		non-native	species.)					
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:(A)			
3.								
4.					Total Number of Dominant Species Across All Strata: (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.					OBL spp. 20 x 1 = 20			
	Total Cover =	0			FACW spp. 90 x 2 = 180			
	-		_		FAC spp. 5 x 3 = 15			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0			
1.	Salix petiolaris	20	Υ	OBL	UPL spp. 0 x 5 = 0			
2.								
3.					Total 115 (A) 215 (B)			
4.					· · · · · · · · · · · · · · · · · · ·			
5.					Prevalence Index = B/A = 1.870			
6.					1 TOVALIDATION THUCK - DITA - 1.010			
7.	_							
					Under history Variation Indicators			
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	Total Cover = _	20	_		X Prevalence Index is ≤ 3.0 *			
					Morphological Adaptations (Explain) *			
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Spartina pectinata	75	Y	FACW				
2.	Poa palustris	15	N	FACW	* Indicators of hydric soil and wetland hydrology must be			
3.	Solidago gigantea	5	N	FAC	present, unless disturbed or problematic.			
4.					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.								
11.								
12.				_	Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
-	Total Cover =	95						
			_					
Woody Vine Str	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.				_	Hydrophytic Vegetation Present? Y			
5.					Trydrophytio rogotation rescrit:			
4.								
	Total Cover =	0		_				
Remarks:			and nrain	ie cord ar	255			
Remarks: The wetland vegetation is dominated by meadow willow and prairie cord grass.								
l								
Additional R	emarks:							